



CITY OF SOMERVILLE

ANNUAL REPORTS

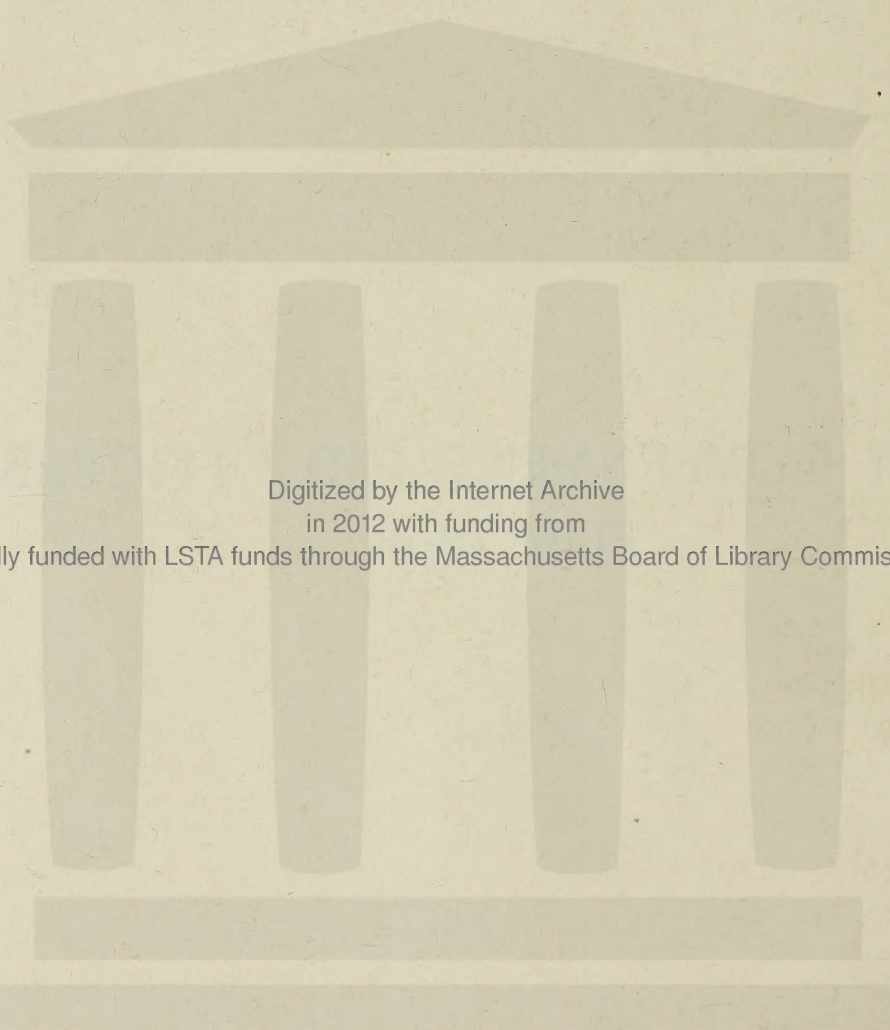
1896



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1897:

CITY GOVERNMENT AND OFFICERS
FOR 1896.



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CITY GOVERNMENT AND OFFICERS FOR 1896.

MAYOR.

ALBION A. PERRY,
366 Broadway.

BOARD OF ALDERMEN.

WARD ONE.

L. HERBERT HUNTLEY	. . . .	1 Pearl street
JOSIAH N. PRATT	. . . .	33 Franklin street

WARD TWO.

MELVILLE D. JONES, <i>President</i>	. . . .	53 Walnut street
ROBERT S. WRIGHT	. . . .	11 Summit avenue

WARD THREE.

LEONARD B. CHANDLER	. . . .	45 Jaques street
JAMES M. ANDREWS	. . . .	172 Broadway

WARD FOUR.

WILLIAM H. BERRY	. . . .	39 Cherry street
HOWARD D. MOORE	. . . .	1 Kenwood street

CLERK.

GEORGE I. VINCENT.

COMMON COUNCIL.

WARD ONE.

FRANK DEWITT LAPHAM	3 Hathorn street
FRANK B. BURROWS	29 Mystic avenue
JOHN HUNNEWELL	48 Pearl street
L. EDGAR TIMSON	41 A Franklin street

WARD TWO.

GEORGE E. WHITAKER, <i>President</i>	19A Greenville street
WILLIAM M. IRVING	82 Summer street
RICHARD A. RUSSELL	23 Putnam street
FRENCH O. J. TARBOX	60 Oak street

WARD THREE.

ANDREW A. LAMONT	43 Heath street
ARTHUR W. BERRY	53 Hudson street
HOWARD LOWELL	46 Gilman street
MARCUS M. RAYMOND	37 Jaques street

WARD FOUR.

JOHN N. BALL	690 Broadway
FRED M. CARR	74 Craigie street
SILAS L. CUMMINGS	251 Elm street
ALBERT L. REED	336 Beacon street

CLERK.

CHARLES S. ROBERTSON.

JOINT STANDING COMMITTEES OF THE CITY COUNCIL.

ACCOUNTS.—Aldermen Chandler and Wright; Councilmen Ball, Burrows and Raymond.

CITY ENGINEERING.—Aldermen Berry and Jones; Councilmen Timson, Berry and Cummings.

CLAIMS.—His Honor, the Mayor, Alderman Moore; the President of the Common Council, Councilmen Lapham and Lamont.

FINANCE.—His Honor, the Mayor, Aldermen Moore and Jones; the President of the Common Council, Councilmen Hunnewell, Carr, Lowell and Russell.

FIRE DEPARTMENT.—Aldermen Huntley and Wright; Councilmen Lamont, Irving and Reed.

FUEL AND STREET LIGHTS.—Aldermen Wright and Chandler; Councilmen Carr, Raymond and Timson.

HIGHWAYS.—Aldermen Berry and Andrews; Councilmen Lapham, Ball and Tarbox.

LEGISLATIVE MATTERS.—His Honor, the Mayor, Alderman Moore; the President of the Common Council, Councilmen Lowell and Timson.

ORDINANCES.—Aldermen Wright and Chandler; Councilmen Burrows, Carr and Tarbox.

PRINTING.—Aldermen Andrews and Moore; Councilmen Irving, Lamont and Hunnewell.

PUBLIC GROUNDS.—Aldermen Pratt and Jones; Councilmen Lowell, Lapham and Reed.

PUBLIC PROPERTY.—Aldermen Chandler and Pratt; Councilmen Cummings, Berry and Russell.

SOLDIERS' RELIEF.—Aldermen Jones and Andrews; Councilmen Tarbox, Burrows and Ball.

WATER.—Aldermen Huntley and Wright; the President of the Common Council, Councilmen Reed and Raymond.

STANDING COMMITTEES OF THE BOARD OF ALDERMEN.

ELECTIONS AND RETURNS.—Aldermen Pratt, Andrews and Berry.

ENROLLED ORDINANCES AND RESOLUTIONS. — Aldermen Chandler, Berry and Pratt.

LICENSES.—Aldermen Moore, Huntley and Jones.

POLICE.—His Honor, the Mayor, Aldermen Andrews and Huntley.

SEWERS.—Aldermen Jones, Moore and Pratt.

SPECIAL BUILDING PERMITS.—Aldermen Berry and Huntley.

STATE AID.—Aldermen Berry, Chandler, Wright and Pratt.

STANDING COMMITTEES OF THE COMMON COUNCIL.

ELECTIONS AND RETURNS. — Councilmen Russell, Cummings and Lowell.

ENROLLED ORDINANCES AND RESOLUTIONS. — Councilmen Berry, Hunnewell and Irving.

SCHOOL COMMITTEE.

ALBION A. PERRY, Mayor, *Chairman, ex-officio.*

GEORGE E. WHITAKER, President of the Common Council, *ex-officio.*
(Term, three years).

WARD ONE.

S. NEWTON CUTLER (elected 1894).

SANFORD HANSCOM, M. D. (elected 1893).

GEORGE S. POOLE (elected 1895).

WARD TWO.

THOMAS M. DURELL, M. D. (elected 1893).

ALVAH B. DEARBORN, M. D. (elected 1894).

HERBERT A. CHAPIN (elected 1895).

WARD THREE.

QUINCY E. DICKERMAN (elected 1895).

THOMAS S. WENTWORTH (elected 1893).

FRANK H. HARDISON (elected 1894).

WARD FOUR.

GILES W. BRYANT, M. D. (elected 1895).

MARTIN W. CARR (elected 1893).

GEORGE A. MILES, M. D. (elected 1894).

GORDON A. SOUTHWORTH, *Superintendent and Secretary.*

ASSESSORS.

(Term, three years.)

BENJAMIN F. THOMPSON, *Chairman*, (term expires 1896.)

SAMUEL T. RICHARDS, (term expires 1898.)

NATHAN H. REED (term expires 1897).

Clerk of Assessors, ALBERT B. FALES.

ASSISTANT ASSESSORS.

(Term, one year.)

WARD ONE.

FRED. B. CLAPP.

WARD TWO.

CHARLES C. FARRINGTON.

WARD THREE.

EDGAR T. MAYHEW.

WARD FOUR.

HARRY A. TRUE.

BOARD OF HEALTH.

(Term, three years.)

ALLEN F. CARPENTER, *Chairman* (term expires 1897).

ALVAH B. DEARBORN, M. D. (term expires 1898).

ALVANO T. NICKERSON (term expires 1899).

Clerk, WILLIAM P. MITCHELL.

Inspector, CALEB A. PAGE.

Superintendent Collection of Ashes and Offal, GEORGE W. S. HUSE.

OVERSEERS OF THE POOR.

Office, Police Building, Bow street.

ALBION A. PERRY, Mayor, *Chairman, ex-officio.*

(Term, four years.)

EDWARD B. WEST, *President* (term expires 1899).

ALBERT W. EDMANDS (term expires 1897).

HERBERT E. MERRILL (term expires 1898).

EZRA D. SOUTHER (term expires 1896).

Agent, CHARLES C. FOLSOM.

Secretary, CORA F. LEWIS.

SOMERVILLE MYSTIC WATER BOARD.

Office, Prospect street, corner Somerville avenue.

(Term, three years).

GEORGE D. WEMYSS, *President*, (term expires 1897).

5 Austin street.

GEORGE A. KIMBALL (term expires 1898).

33 Warren avenue.

WILLIAM FRANKLIN HALL (term expires 1899).

345 Broadway.

NATHANIEL DENNETT, *Supt. Water Works.*

FRANK E. MERRILL, *Clerk.*

REGISTRARS OF VOTERS.

(Term : City Clerk, one year ; other members, three years).

CROMWELL G. ROWELL, *Chairman* (term expires 1897).

CHARLES P. LINCOLN (term expires 1898).

CHARLES E. PARKS (term expires 1899).

GEORGE I. VINCENT, *City Clerk.*

TRUSTEES OF THE PUBLIC LIBRARY.

(Term, three years).

CHARLES S. LINCOLN, *Chairman* (term expires 1897).

CHARLES A. WEST (term expires 1898).

JOHN B. VIALI (term expires 1899).

J. HENRY FLITNER (term expires 1898).

CHRISTOPHER E. RYMES (term expires 1897).

ELIJAH C. CLARK (term expires 1898).

CHARLES H. BROWN (term expires 1897).

J. FRANK WELLINGTON (term expires 1899).

CHARLES W. SAWYER (term expires 1899).

JOHN S. HAYES, *Librarian and Secretary*.

CITY CLERK AND CLERK OF BOARD OF ALDERMEN.

GEORGE I. VINCENT.

CITY TREASURER AND COLLECTOR OF TAXES.

JOHN F. COLE.

MESSENGER TO CITY COUNCIL.

JAIRUS MANN.

CITY SOLICITOR.

SELWYN Z. BOWMAN.

CITY AUDITOR.

CHARLES S. ROBERTSON.

CITY ENGINEER.

ERNEST W. BAILEY.

CONSULTING ENGINEER.

GEORGE A. KIMBALL.

SUPERINTENDENT OF STREETS.

JOHN P. PRICHARD.

**INSPECTOR OF BUILDINGS AND SUPERINTENDENT OF PUBLIC
BUILDINGS.**

FREDERICK C. FULLER.

CHIEF OF POLICE.

MELVILLE C. PARKHURST.

CHIEF ENGINEER OF THE FIRE DEPARTMENT.

JAMES R. HOPKINS.

SUPERINTENDENT OF ELECTRIC LINES AND LIGHTS.

EDWARD BACKUS.

CITY PHYSICIAN.

ALVAH B. DEARBORN, M. D.

INSPECTOR OF MILK AND VINEGAR.

CHARLES S. PHILBRICK.

INSPECTOR OF ANIMALS AND PROVISIONS.

CHARLES M. BERRY.

SEALER OF WEIGHTS AND MEASURES.

AMMIEL COLMAN (died March 6).
LUTHER B. PILLSBURY (appointed March 11).

CLERK OF COMMITTEES.

WILLIAM P. MITCHELL.

CLERK OF ASSESSORS.

ALBERT B. FALES.

Suitable Persons to Cause to be Properly Interred the Bodies of Honorably
Discharged Soldiers, Sailors and Marines, under
Chapter 395, Acts of 1889.

JAMES F. DAVLIN.
JOHN H. DUSSEAUT.

CONSTABLES.

JAIRUS MANN.	MELVILLE C. PARKHURST.
ROBERT R. PERRY.	WILLIAM D. HAYDEN.
CHARLES C. FOLSOM.	JOSEPH J. GILES.
EDWARD McGARR.	DENNIS KELLEY.
CHRISTOPHER C. CAVANAGH.	CHARLES L. ELLIS.
EUGENE A. CARTER.	CLARENCE TUCKER.
PATRICK J. GARVIN.	GEORGE H. CARLETON.

FENCE VIEWERS.

LAMBERT M. MAYNARD. AMMIEL COLMAN (died March 6).
CHARLES M. BERRY (elected Nov. 11).

MEASURER OF WOOD AND BARK.

SAMUEL T. LITTLEFIELD.

MEASURERS OF GRAIN.

JOHN CRAIG.
ALBERT C. LYMAN.

PUBLIC WEIGHER IN CHARGE OF CITY SCALES, UNION SQUARE.
FULTON O'BRIEN.

WEIGHERS OF COAL.

JOHN CRAIG.	D. WARNER DANFORTH.
GEORGE K. WALCOTT.	THADDEUS HARRINGTON.
CHARLES H. TUCKER.	CLINTON E. SOMES.
GEORGE E. SLACK.	SIDNEY E. HAYDEN.
ROBERT A. YERXA.	IRWIN L. SMITH.
FRANK A. TEELE.	SUMNER M. TEELE.
THOMAS K. MARTIN.	CHARLES P. BRANN.

WEIGHERS OF BEEF.

D. WARNER DANFORTH.	THADDEUS HARRINGTON.
CHARLES H. TUCKER.	GEORGE K. WALCOTT.
FREDERICK A. GEILING.	GEORGE E. SLACK.
CLARENCE EDWARDS.	CLINTON E. SOMES.
THOMAS K. MARTIN.	EDWARD M. WHEELER.

POLICE DEPARTMENT.

MELVILLE C. PARKHURST, *Chief.*

ROBERT R. PERRY, <i>Captain.</i>	EDWARD McGARR, <i>Sergt.</i>
CHRIS. C. CAVANAGH, <i>Sergt.</i>	DENNIS KELLEY, <i>Sergt.</i>
EUGENE A. CARTER, <i>Sergt.</i>	PHINEAS W. SKINNER.
JOHN E. FULLER.	SAMUEL A. BROWN.
ALBION L. STAPLES.	JOHN HAFFORD.
JUDSON W. OLIVER.	GEORGE A. BODGE.
GEORGE W. BEAN.	GEORGE H. CARLETON.
GEORGE L. SMITH.	FRANCIS A. PERKINS.
EDWARD M. CARTER.	CHARLES S. THRASHER.
EDW. E. HAMBLIN (res. May 20).	WILLIAM H. JOHNSTON.
CHARLES E. WOODMAN.	JOHN G. KNIGHT.
ARTHUR E. KEATING.	THEODORE E. HERON.
STEPHEN S. SMITH.	JACOB W. SKINNER.
EUGENE H. GAMMON.	DAVID A. BOLTON.
IRA S. CARLTON.	JAMES M. HARMON.
CHARLES W. STEVENS.	MICHAEL T. KENNEDY.
ULYSSES G. SKINNER.	EZRA A. DODGE.
JAMES J. POLLARD.	DANIEL G. SIMONS.
SAMUEL BURNS.	FRED H. GOOGINS.
JOTHAM CHISHOLM.	WILLIAM J. DAVIDSON.
ELMER E. DREW.	JOHN A. DADMUN,
	(app. June 10).
MELVILLE C. PARKHURST, <i>Lockup Keeper.</i>	

RESERVE POLICE.

GEORGE L. RICE.	EUGENE A. WOODSUM.
HERBERT HILTON.	JOHN A. RAY.
MYRON S. GOTT.	CHARLES W. REICK.

MAYOR'S INAUGURAL ADDRESS.

CITY OF SOMERVILLE.

IN CONVENTION OF THE CITY COUNCIL, }
January 4, 1897. }

RESOLVED: That His Honor, the Mayor, be, and is hereby requested to furnish the Committee on Printing with a copy of his inaugural address for publication.

Read twice and adopted.

GEORGE I. VINCENT, *Clerk.*

INAUGURAL ADDRESS

DELIVERED BY

HON. ALBION A. PERRY,

JANUARY 4, 1897.

GENTLEMEN OF THE CITY COUNCIL :—

I deem it a high privilege to join with you in the interesting ceremonies of Inauguration Day. It seems but yesterday, so swiftly do the years roll round, since I looked into the faces of some of your number as you stepped upon the platform of a neighboring hall and subscribed to a solemn pledge of faithful and impartial service in the city's behalf. To-day, in company with many new associates, you have again assumed the responsibilities of public office, and upon your labors the blessing of Almighty God has been reverently invoked. To my fellow-citizens who have, with such marked unanimity, conferred upon me the great honor of a re-election to the highest municipal office, I return my heartfelt thanks. The only reward I can offer them—it is all they require—is patient, earnest service in their behalf.

To you, gentlemen of the City Council, and to the people of Somerville at large, I extend a cordial New Year's greeting, and pledge the best of my thought and effort to the task of making this a happy and prosperous year for the city whose public inter-

ests have been entrusted to our hands. You have been selected by your fellow-citizens to manage the public affairs of Somerville during the present year. The honor thus conferred upon you is indeed great, but it imposes obligations of the most difficult and delicate nature. The highest degree of patience, wisdom, firmness, and zeal will be required in the execution of the trust this day committed to you. It is not to be expected that you will be entirely free from errors of judgment, but you will be held to uncompromising fealty to the highest standards of diligence and honesty. The work which you will be required to do relates not to the present year alone, but will have a strong bearing, either for good or ill, upon the whole future of the city.

The City of Somerville is a great municipal corporation, in which every citizen is a stockholder, the poorest having as much at stake as the richest in the transaction of the corporate business. The man of property desires careful and prudent management of public affairs, to the end that his investments may prove lucrative, and that no undue burden of taxation may be imposed. The wage-earner wants good streets and sidewalks to drive and walk upon, pure water to drink, the best schools for the instruction of his children, rigid enforcement of the laws and ordinances, in order that he may dwell in happiness and content, that his wife may walk abroad without fear of insult and his children without risk of contamination. The peculiar characteristics of Somerville should be kept carefully in mind by those who are entrusted with the management of her public concerns. It is primarily a city of homes, and it is your duty to adopt and carry out such a policy as shall make these homes safe, pleasant, and attractive, and throw about them every reasonable safeguard.

I shall not give much time to-day to the discussion of the details of departmental work, nor weary you with a repetition of the statistical facts which are so clearly set forth in the reports of the various boards and committees. I prefer to devote the greater part of this address to the consideration of some of the more important public measures with which you will be required to deal, and, incidentally, to comment upon a few of the prominent features of municipal government.

STATEMENT OF FINANCES.

I shall first invite your attention to the present financial condition of Somerville, and commend to your careful study the following tables, which give much valuable information upon the subject.

The funded debt of the city January 1, 1896, was as follows:—

Funded Debt, City Loan	\$930,000.00
Funded Debt, Sewer Loan	170,000.00
Funded Debt, Paving Loan	85,000.00
Funded Debt, Water Loan	321,500.00

Total Funded Debt	\$1,506,500.00
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The debt was increased during the year by appropriations made by the City Council as follows:—

City Hall Improvements	\$22,000.00
Fire Department, Fire Station, Ward 1	6,500.00
Fire Department, Fire Station No. 4, improvement	5,000.00
Fire Department, Land for Fire Sta- tion, Clarendon Hill, Ward 4	2,500.00
Highways, City Stables	2,000.00
Highways, Steam Road Roller No. 2	3,500.00
Renewals of Funded Debt	47,000.00
Schoolhouse, English High	7,000.00
Schoolhouse, Jacob T. Glines, ad- dition	22,000.00
Schoolhouse, Land, Spring-hill Dis- trict	3,000.00
Schoolhouse, Land, Ward 3	6,000.00
Schoolhouse, Luther V. Bell, heating, ventilating, and sanitary appara- tus	6,500.00
Schoolhouse, Ward 1	35,000.00
Schoolhouse, Ward 4	9,000.00

Total amount of increase	\$177,000.00
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The debt was reduced during the year by payments as follows:—

Funded Debt, City Loan	\$88,000.00
Funded Debt, Sewer Loan	41,000.00
Funded Debt, Paving Loan	5,000.00
Funded Debt, Water Loan	18,500.00

Total amount of reduction	<u>\$152,500.00</u>
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Leaving the funded debt of the city January 1, 1897, \$1,531,000 (an increase of \$24,500 over the previous year), classified as follows:—

City Loan Bonds bearing interest at 4 per cent.	\$822,000.00
City Loan Bonds bearing interest at $4\frac{1}{2}$ per cent.	185,000.00
City Loan Sewer Bonds bearing interest at 4 per cent	114,000.00
City Loan Sewer Bonds bearing interest at $4\frac{1}{2}$ per cent	15,000.00
City Loan Paving Bonds bearing interest at 4 per cent.	80,000.00
Water Loan Bonds bearing interest at 4 per cent.	248,000.00
Water Loan Bonds bearing interest at 5 per cent.	57,000.00
Water Loan Bonds bearing interest at $5\frac{1}{2}$ per cent.	<u>10,000.00</u>

Total Funded Debt January 1, 1897	<u>\$1,531,000.00</u>
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The foregoing amount represents the net indebtedness of the city, the unfunded liabilities for temporary loans, etc. (excepting only pay rolls for school teachers' and janitors' salaries for the month of December, 1896, amounting to \$18,382.00, which could not be paid from last year's appropriations), being equalled by its assets, which consist of uncollected taxes, sewer and sidewalk assessments, etc.

To provide for the payment of the current expenses, state and county taxes, and debt requirements of the past year, the annual tax levy was made as follows:—

Real Estate, valuation	\$45,224,800.00
Personal Property, valuation	<u>3,846,000.00</u>
Total valuation	\$49,070,800.00

A rate of \$15.40 on \$1,000 valuation, with 15,361 polls at \$2.00 each, gives the total amount of the tax levy \$786,412.32.

The appropriations provided for by the tax levy were as follows:—

Engineering Department	\$10,000.00
Fire Department	51,450.00
Health Department	20,000.00
Highways	60,000.00
Indigent Soldiers and Sailors	300.00
Interest	70,000.00
Miscellaneous	7,000.00
Police	46,000.00
Police Station Incidentals	3,000.00
Printing and Stationery	6,500.00
Public Grounds	7,000.00
Public Library	8,000.00
Reduction of Funded Debt	95,000.00
Relief and Burial of Indigent Soldiers and Sailors	7,000.00
Salaries	5,700.00
School Contingent	18,000.00
School Contingent, Janitors' Salaries	13,000.00
School Fuel	10,000.00
Schoolhouse Incidentals	15,000.00
School Teachers' Salaries	150,000.00
Sewers, Maintenance	7,000.00
Sidewalks	10,000.00
Street Lights	47,000.00
Support of Poor	17,150.00
Watering Streets	6,000.00
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For current expenses	\$690,100.00
State of Massachusetts, state tax	30,205.00
State of Massachusetts, non-resident bank stock	889.35
County of Middlesex, county tax	43,327.63
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<i>Amount carried forward,</i>	\$764,521.98

<i>Amount brought forward,</i> . . .	\$764,521.98
Overlay and abatements added for fractional divisions and abatements	21,890.34
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Total amount of appropriations provided for by the tax levy . .	\$786,412.32
In addition to the above, the following appropriations were made from the various income accounts:—	
Salaries, the amount received of the State for Corporation and bank taxes	21,843.77
Police, the amount received of the Clerk of the Court for fines, costs, etc., estimated	5,210.00
Public Library, the amount received of the County for dog licenses . .	2,506.29
Water Maintenance, from the income of the water works	60,000.00
Water Works Extension, from the income of the water works	16,000.00
Water Loan Interest, from the income of the water works	13,612.50
Reduction of Funded Debt, balance of income of the water works premium on bonds, etc.	4,657.67
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Total amount of appropriations for the year	\$910,242.55

The tax rate of the past year, including the amount assessed on polls, equals the sum of \$16.02 on each \$1,000 valuation, and, as applied to the various departments, gives the rate assessed for the maintenance of each as follows: Debt Requirements, \$3.35; Health Department, \$.41; Support of Poor, \$.35; Schools, \$.42; State and County Taxes, \$1.52; Overlay and Abatements, \$.45. Total amount appropriated beyond the control of City Council, \$10.28 per \$1,000.

The following sums represent appropriations within the control of the City Council: Engineering Department, \$.205; Fire Department, \$1.05; Highways, \$1.22; Miscellaneous, \$.14; *Police Department, \$1.00; Printing and Stationery, \$.14; Public Grounds, \$.14; *Public Library, \$.16; *Salaries, \$.12; Sewers Maintenance, \$.14; Sidewalks, \$.205; Soldiers' Relief, \$.14; Street Lights, \$.95; Watering Streets, \$.13. Total amount appropriated within the control of the City Council, \$5.74 per \$1,000.

The maintenance and extension of the Mystic Water Department were wholly provided for from the income of the works.

* Additional appropriations for the Police Department, Public Library and Salaries accounts were made from the various income accounts, as before stated.

The following tables, giving a condensed history of the city's finances, are herewith presented for reference:—

YEAR.	Amount of Funded Debt.	Increase of Funded Debt.	Reduction of Funded Debt.	Tax Rate per \$1,000 Valuation on Account of Reduc- tion of Funded Debt.
Town	\$593,349	. .	. .	. .
Dec. 31, 1872	643,354	\$50,005	. .	. .
" 1873 .	809,354	166,000	. .	. .
" 1874 .	1,419,854	610,500	. .	. .
" 1875 .	1,571,854	152,000	. .	. .
" 1876 .	1,606,844	45,000	\$55,130.62	\$2.07
" 1877 .	1,606,854	10,000	58,828.58	2.30
" 1878 .	1,596,854	. .	61,004.64	2.91
" 1879 .	1,585,000	. .	64,915.76	3.42
" 1880 .	1,585,000	. .	55,739.35	2.72
" 1881 .	1,585,000	. .	58,498.64	2.59
" 1882 .	1,585,000	. .	61,390.59	2.65
" 1883 .	1,585,000	. .	64,479.01	2.70
" 1884 .	1,585,000	. .	67,719.33	2.78
" 1885 .	†1,525,000	. .	71,305.66	2.87
" 1886 .	1,525,000	. .	66,894.23	2.57
" 1887 .	1,525,000	. .	70,252.88	2.56
" 1888 .	†860,500	25,000	37,000.00	1.28
" 1889 .	952,500	130,000	38,000.00	1.27
" 1890 .	1,057,500	150,000	45,000.00	1.38
" 1891 .	1,045,500	45,000	57,000.00	1.55
" 1892 .	1,194,500	253,000	104,000.00	2.73
" 1893 .	1,279,500	222,000	137,000.00	3.27
" 1894 .	1,344,500	172,000	107,000.00	2.42
" 1895 .	1,506,500	247,000	85,000.00	1.83
" 1896 .	1,531,000	177,000	152,500.00	3.11

† Sinking fund applied.

Year.	Valuation.	Tax Levy.	Rate.
1872 . .	\$22,755,325 . .	\$274,374.45 . .	\$13.00
1873 . .	29,643,100 . .	389,214.48 . .	12.80
1874 . .	30,837,700 . .	473,235.50 . .	15.00
1875 . .	31,317,000 . .	518,161.40 . .	16.20
1876 . .	26,573,400 . .	504,745.24 . .	18.60
1877 . .	25,479,400 . .	471,789.14 . .	18.10
1878 . .	20,976,900 . .	409,497.10 . .	19.00
1879 . .	18,950,100 . .	352,553.80 . .	18.00
1880 . .	20,458,100 . .	402,927.71 . .	19.10
1881 . .	22,569,100 . .	452,945.45 . .	19.50
1882 . .	23,162,200 . .	425,721.16 . .	17.80
1883 . .	23,812,900 . .	411,645.43 . .	16.70
1884 . .	24,331,100 . .	418,750.26 . .	16.60
1885 . .	24,878,400 . .	428,605.44 . .	16.60
1886 . .	26,003,200 . .	416,987.28 . .	15.40
1887 . .	27,471,800 . .	424,309.14 . .	14.80
1888 . .	28,765,400 . .	421,458.60 . .	14.00
1889 . .	30,004,600 . .	440,324.40 . .	14.00
1890 . .	32,557,500 . .	447,704.00 . .	14.00
1891 . .	36,843,440 . .	539,137.10 . .	14.00
1892 . .	38,093,100 . .	596,357.50 . .	15.00
1893 . .	41,873,600 . .	675,886.80 . .	15.50
1894 . .	44,142,900 . .	721,165.54 . .	15.70
1895 . .	46,506,300 . .	745,609.02 . .	15.40
1896 . .	49,070,800 . .	786,412.32 . .	15.40

The foregoing tables are so arranged as to tell their own story with a clearness which calls for little explanation, but I desire to comment briefly upon a few of the facts which they disclose.

First: It will be seen that the net funded debt of the city, on the first day of the present month, was \$1,531,000, an increase of \$24,500 over the previous year. With a single exception, this is the smallest increase of the city debt in any one year during the last eight years, and much below the average annual increase of that period.

Second: The appropriations on funded debt account during the year 1896—exclusive of \$47,000 required for renewals of previous loans—amounted to \$130,000. Of this amount, \$88,500 was appropriated for various schoolhouse purposes, and only \$41,500 for all other purposes combined.

Third: Only a little more than one-third of the money raised by the tax levy last year was expended under the direction of the City Council, the balance having been used for purposes not within the City Council's control. More than one-half of all the money raised by taxation last year was absorbed by the three items of schools, state and county taxes, and debt requirements.

Fourth: The proportional part of last year's tax levy required for reduction of funded debt has only been twice exceeded during the past twenty years. The large increase of the city debt during the last few years will have a potent effect in keeping up the tax rate for many years to come. During the present year we shall be required to pay bonds to the amount of \$136,000, and this will probably necessitate a small increase in the tax rate.

The city's borrowing capacity within the statutory limit, on the second day of the present month, was estimated at \$124,948. On the first day of next July it will amount to about \$167,948. This, I believe, is ample for all necessary demands, and I would emphatically renew my recommendation of last year, that no appeal be made to the Legislature for permission to borrow outside of the debt limit for any purpose. The present amount of city debt, outside of the statutory limit, is \$176,000, a decrease of \$9,000 during the year 1896.

By an act of the Legislature of the year 1875, entitled "An Act to regulate and limit Municipal Indebtedness," an effectual check was placed upon municipal extravagance. The legislation to which I refer has been sharply criticised in the past by some of our best financiers, and even now able men are occasionally found who regard it as an unwise and unwarranted interference on the part of the Commonwealth with the affairs of the cities and towns. While I am willing to concede that occasional hardships have resulted from this law, and that it has borne with more than average severity upon our own city, I am firmly of the opinion that its general results have been salutary. The aim of this law is to compel each city and town in the Commonwealth to a closer adherence to the good old-fashioned policy of "Pay as you go."

At the time the Municipal Indebtedness act went into effect (January 1, 1876) the funded debt of the city was \$1,571,854, its valuation \$26,573,400. To-day, with a valuation of nearly \$50,000,000, the total funded debt is less than it was twenty years ago.

The laws of the Commonwealth fix the limit of taxation, for ordinary municipal purposes, at twelve dollars on each one thousand dollars of valuation. From this sum the entire expense of maintaining the several departments, including public schools, must be met. All moneys raised by taxation, in excess of the twelve-dollar limit, are applied to the payment of state and county taxes and for the requirements of the city debt. I have found quite a number of intelligent citizens who entertained the erroneous idea that it was only necessary to make slight increase in the tax rate in order to have ample revenue for the maintenance of public schools, fire department, police, highways, sewers, and all the other departments. If our tax rate should be raised to twenty-five dollars on a thousand, it would not yield one additional dollar to defray current expenses. The increased rate would merely indicate that we had taken on a heavier burden of debt, and were thereby compelled to appropriate larger sums to meet annual payments of interest and principal thereon.

I know the City Council would gladly make more liberal appropriations for the various municipal departments, if it could be done lawfully, and without impairment of the city's credit. The statutes of the Commonwealth, as I have said, prescribe the exact limit to which cities and towns may go in making appropriations for current expenditures, and this limit was fully reached by the appropriation bill of last year. Surely no city council, whatever the personal desires of its members might have been, could have done more. Any criticism of its action, in not providing more generously for the several departments, grows out of ignorance of the exact situation of affairs. Until the Legislature removes the barrier against unrestricted municipal expenditure which it set up in 1885, only one method can be found for adding to our annual budget; namely, by raising the valuation of the taxable property of the city. In my judgment, such a step cannot be safely or properly taken. It seems to be the opinion of those best

informed as to real estate, that the property of our citizens is already assessed at its full market value. If such is the case, any further marking up of values would impose unjust burdens upon tax payers, and unduly augment Somerville's share of state and county taxes.

I have shared the regret felt by last year's City Council, that the financial condition of the city forbade the immediate carrying out of several public enterprises of great merit, but it seems reasonable to hope that some of these much needed improvements may be undertaken the present year. As I have previously stated, but slight addition was made last year to the net funded debt of the city. From this fact, taken in connection with the large increase of taxable property, I am led to believe that you will be able to enter upon several important undertakings which promise much good to our city.

I shall now direct your attention to the condition and needs of several of the important city departments.

SEWERS.

In addition to the ordinary work of the Sewer Department during the past year, several undertakings of unusual magnitude were entered upon and carried to successful completion. I shall only take time to refer to one or two of these measures, as they are fully discussed in the report of the City Engineer.

The long delayed plan for providing drainage for the Tannery Brook district and relief for the overcharged sewers in West Somerville has at length been executed in a most thorough and satisfactory manner. The Tannery Brook district, lying partly in Somerville and partly in Cambridge, has an area of about three hundred and fifty acres, and has heretofore been without any public sewerage facilities. This unfortunate state of affairs is now permanently remedied, and no part of our city is to-day drained in a more complete and scientific manner. It is believed that owners of lands in the vicinity of Davis square will suffer no further annoyance from the flooding of cellars in times of heavy rainfall, and that much relief will be experienced along the entire line of the Somerville-avenue sewer.

The citizens of Somerville owe a debt of gratitude to the men who have given so much of their time and thought to the solution of the sewerage problem in West Somerville. They have often sat far on into the night, diligently studying maps, plans, and figures, in order that no mistake might be made in the costly and difficult undertaking. One of these patient and conscientious public servants, the lamented ex-City Engineer, Horace L. Eaton, was not permitted to witness even the beginning of the work upon which he had bestowed such careful and earnest thought, but his suggestions and services in formulating the earliest plans are not forgotten by those who were associated with him. Even at the risk of offending friends, whose modesty leads them to shrink from the slightest public recognition, I will venture to suggest that the general public knows but little of the measure of unselfish labor which has been given to the Tannery Brook sewer enterprise by some of the city officers and employees. Of special value have been the services of our Engineers, Messrs. Bailey and Kimball, our City Solicitor, Hon. Selwyn Z. Bowman, and the members of the sewer committees during the years 1895 and 1896.

Two other measures of marked importance, carried out by the sewer department last year, were the connection of the sewage of Somerville with the Metropolitan sewer system, and the adoption of plans for conducting away the sewage and waste water from the great slaughtering establishments and packing houses in the southerly part of our city. For the interesting details of the work, you are referred to the report of the City Engineer.

I would strongly urge the necessity of taking prompt steps for the improvement of our sewer system in those parts of the city where the present sewers are of insufficient size to do the work required of them. The Union Square district, and a large section of East Somerville, extending on both sides of Cross street, demand immediate attention. It is wrong longer to subject property owners in these localities to the annoyance and loss which they suffer from damp houses and flooded cellars in times of severe storm. I consider this one of the most important and

pressing subjects which will engage your attention, and I trust your action with reference to it will be prompt and decisive.

HIGHWAYS.

Nothing contributes more directly to the welfare of a city than smooth, tidy, well-kept streets. Such streets are not only a convenience to the public, but they also enhance the value of property and conduce to the general prosperity of all the people. In our time the character of a city is largely judged of by the condition of its highways. It is, therefore, of prime importance that we should not allow the reputation of our city to suffer from unjust condemnation of its streets. Public interest has been thoroughly awakened upon the subject of good roads, and in this city the tax-payers are vigorously demanding that some intelligent and practical method shall be adopted for the improvement of our highways. While it is generally conceded that there has been a marked improvement in our streets, as a whole, during the past year, it is manifest that much remains to be done before the public will be satisfied with their condition.

Not a little of the criticism which is passed upon our highways is thoughtless and unfair. While they are noticeably inferior to those in some sections of Boston, Brookline, and Newton, I believe they compare favorably, in the main, with the highways of many of our suburban neighbors. Credit is due to the Superintendent of Streets and Highway Committee for the satisfactory results which they have achieved during the past year, with the limited means at their disposal. They would gladly have done more had they not been hampered by an appropriation far too meagre for the needs of their department.

The difficulties under which the Highway Department labors are imperfectly understood by the great body of our citizens, and I shall take time to allude briefly to a few of them. The building and repairing of highways in Somerville is far more expensive than in some of the neighboring cities. We have very little suitable material for good road building within our own borders, and the transportation of crushed stone from distant places adds greatly to the expense of street construction. Our soil is chiefly

of a clayey nature, and retains storm water for a considerable time. The surface of the city is hilly, and the grade of many of our streets is so sharp as to cause a destructive wash in times of heavy rain. The frequent digging up of our streets, for the laying of pipes of various sorts and for the tracks of the street railway, is exceedingly vexatious to the Highway Department, and seriously interferes with keeping the streets in proper repair.

There ought to be concerted action among the different departments of the city in their dealings with the streets. It is, indeed, unfortunate that so much of the labor and expense of the Highway Department should be wasted, in consequence of the action of the Water and Sewer Departments in digging up the streets almost as soon as they are constructed. Under our present faulty system, there is no certainty that a street, when once built, will long remain in a sightly and passable condition. The Sewer Committee, the Water Board, the gas company, the street railway corporation, may proceed at once to destroy the surface which the Highway Department has so carefully constructed. Some means ought to be found to obviate, in part, the bad results of this haphazard method. When the surface of a street is disturbed by the railway companies, or for the laying of gas, water, and sewer pipes, the roadbed should be promptly restored to its former condition. I believe it would be just and proper to require the street railway corporations to pave from curb to curb in all cases where tracks are laid in a narrow street.

Very much depends upon the tidiness of streets and sidewalks. It should be the duty of certain employees of the Highway Department to go over the streets at stated intervals and remove all objects which render them unsightly or unsafe. Our citizens should co-operate with the Highway Department in keeping the highways in a tidy and attractive condition. No person who has regard for the beauty and good repute of his city will throw rubbish of any kind into one of its streets. There is no better test of the civilization of a community than the treatment which its streets receive at the hands of the people. When I walk along a highway which is littered and defaced with bits of wood, paper, tin cans, broken bottles, orange and banana skins, I feel at

once like diminishing my contributions to foreign missions, for it is apparent that much missionary work yet remains to be done at home. When a street is scraped and cleaned, the waste material should be promptly carted away, and not, as is sometimes the case, allowed to remain in piles in the gutters for several days.

In the building of highways the best materials should be selected, and the most intelligent methods pursued. When a street is rebuilt, the work should be done in a thorough manner, so as to yield the longest service. The constant patching of streets which have become practically worn out is a mere waste of money. Insufficient attention is given to our main thoroughfares. The greater part of the annual appropriation should, I believe, be expended upon them. We boast of the wonderful improvements which have been made during the past century in every department of human activity, and there can be no doubt that, on the whole, there has been great advancement even in road building; and yet it is a well-known fact that some of the finest roads in the world are to-day found in Italy, and were built before the Christian Era.

With each passing year the use of the bicycle becomes more general, and the claims of the multitude who ride the silent steed cannot be fairly ignored. Hundreds of our citizens who have not yet ventured to ride the wheel would do so if our main thoroughfares were in such a condition as to make bicycle riding a safe and pleasant pastime. Wheelmen and wheelwomen are among the most energetic and progressive members of the community. They contribute largely to the public revenue, and their convenience and pleasure should be kept constantly in view. I have sometimes thought it would be feasible to pave the gutters of some of our principal streets with asphalt, instead of granite blocks or cobble stones, so as to furnish a smooth, dry surface for bicycle riders at most seasons of the year. It might, at least, be proper to try the experiment on a single street, such a one, for example, as Highland avenue.

During the past year extensive repairs were made upon several of the main thoroughfares. Beacon street was thoroughly macadamized and surfaced, from its northerly terminus to Kent

street and from Buckingham street to the Cambridge line. The remainder of the street should be rebuilt the present year.

It was found, near the close of last year, that Mystic avenue was in a state which rendered it unsafe for public travel. This condition was due in part to long neglect, and in part to the excavations made within its location for the purpose of laying the Metropolitan sewer. The Superintendent of Streets, acting under the direction of the Highway Committee, has just completed a roadbed, twenty feet in width, extending nearly the entire length of the avenue. The street is now in a passable condition for the winter, but its thorough rebuilding at full width should be undertaken at an early date. Mystic avenue is one of the most important arteries of travel in our city. It furnishes direct communication between Boston and the northerly suburbs. It has a level grade, and if once put in good order would be extensively used for the heavy teaming which now passes over Broadway and Medford street. It would also be a favorite road for bicycle riders, on account of its freedom from hills. By diverting from Broadway to Mystic avenue the heavy traffic which now passes over Winter Hill, the first named street, which is one of the broadest and most beautiful in our city, could be kept in excellent repair at a much less cost than at present.

Much-needed repairs were made last year upon Highland avenue, Summer street, Central street, and Cross street. Granite paving blocks were laid in Washington street, between Medford and Tufts streets, and in Medford street, between the Fitchburg railroad and Somerville avenue. The improvement of Washington street, at the point where it passes under the railroad bridge, is deserving of special mention. A spot which has been unsightly and dangerous for many years is now in excellent condition. The paving of Somerville avenue ought to be continued as rapidly as the finances of the city will permit. This street is the principal thoroughfare for heavy traffic, and no roadbed of macadam, however carefully constructed, will long withstand the wear and tear to which it is subjected. The unpaved portions of the avenue are now in a deplorable condition, and I trust you will be able to do some paving upon them the present year.

Last year's appropriation for highways was \$60,000; and the money was expended in a prudent and judicious manner. It was, nevertheless, inadequate for the needs of the department, and I hope it will be possible to make a much larger appropriation this year. Not less than \$70,000 should be set apart the present year for the building and improvement of highways, if it can be done without undue encroachment upon the needs of other departments.

The public must not expect too much in the way of street improvement in a single year. The present unsatisfactory condition of our streets is the result of a long period of neglect and the persistent practice of faulty methods. I know you will do all in your power to bring our highways into such a condition as to meet the approval of those who now justly complain.

STREET SPRINKLING.

Commendable effort was made last year to promote the comfort of bicycle riders, and others who make frequent use of the highways, by the adoption of a more rational method of street watering than had previously prevailed. The sprinklers were so adjusted as to settle the dust without unnecessary flooding of the streets. Owing to carelessness or lack of experience on the part of some of the drivers, the work was occasionally done in a faulty manner. I trust that still more careful attention will be given to this matter during the present year. Nothing is more exasperating to the owner of wheel or carriage than to ride along thoroughfares which have been fairly drenched with water. The slimy condition of the streets produced by such uncalled for drenching is a grievous annoyance to the wheelmen, and a constant menace to life and limb. Judging from the harsh expletives which I have heard from the lips of prostrate and muddy bicyclists, I should say that such a wholesale use of water, even in our no-license city, was not conducive to the best moral development of our people.

STREET RAILWAY ACCOMMODATIONS.

I believe that the people of Somerville are entitled to better service from the West End Street Railway Company than they

are at present receiving, and that it is the duty of the Board of Aldermen to make every reasonable effort to secure further concessions from the road. A greater number of cars should be run during the hours of the day when there is most travel, and the present system of free transfers should be so extended and improved as to allow our citizens to reach any point on the various routes of the corporation by the payment of a single fare. The present transfer station at Charlestown Neck, consisting of an abandoned horse car and a peripatetic conductor, reflects slight credit upon a corporation capitalized at nearly twenty-five millions of dollars.

In granting locations to street railway corporations great care should be taken to protect the rights of the city, and promote the welfare of our citizens. The privileges which these corporations enjoy are extensive and profitable, and the public which confers them has a right to demand the most efficient service and the most ample accommodations in return. In no case ought any irrevocable franchise to be granted. The people should retain ownership and control of the highways, and have it at all times in their power to evict any corporation which pursues an unreasonable or oppressive policy. I look with alarm upon the modern tendency to grant, for a pecuniary consideration, permanent franchises to quasi-public corporations. Unless this practice is checked, we shall soon find that we have virtually transferred the title in our public streets to grasping, monopolistic corporations. The granting of a twenty-years' lease of the Boston Subway to the West End road is the most recent and startling example of the ease with which the people are robbed of their most valuable rights and shorn of their highest prerogatives.

PUBLIC PARKS AND BOULEVARDS.

It is not necessary, at this late day, to enter into any lengthy argument as to the desirability of laying out parks and playgrounds in a populous city, nor to dwell upon the advantages—pecuniary, sanitary, and aesthetic—which are sure to result from a broad and liberal policy in dealing with park questions. It cannot be doubted that a beautiful public park, located in a residen-

tial district, greatly increases the value of taxable property in the neighborhood, and conduces to the happiness and prosperity of the people. Open spaces in the thickly settled portions of a city are a beautiful and healthful feature, and they often prove of great service in preventing the spread of disastrous conflagrations. Too little attention has been given in the past by the inhabitants of Somerville to the subject of public reservations.

Our pleasure grounds and parkways never received more careful attention than during the past year. They were kept in the best of repair, and excellent taste was displayed in their adornment. It is to be hoped that the Committee on Public Grounds of the present City Council will manifest like diligence and skill, and that the practice of spending a reasonable portion of the appropriation for flower beds, rustic baskets, and ornamental shrubbery will be continued.

There is a widespread feeling in the community in favor of setting apart a portion of the vacant lands on Prospect Hill as a public park. This project is one which possesses great merit and appeals strongly to the patriotic impulses of our people. Our hearts swell with pride when we recall the stirring events which transpired in the early days on the summit and along the slopes of Prospect Hill. It is a spot rich in historic associations, and about it cluster tenderest memories. Energetic efforts should be made, either by the City Council or public-spirited citizens, to protect its sacred soil from further desecration, and to preserve it for all time as a local shrine of American liberty and patriotism. The land is now in a rough and unsightly condition, and the approach to it from Walnut street furnishes a marked example of the thoughtless and haphazard methods pursued by some of our citizens in the development of private lands. The construction of a public park on Prospect Hill would greatly enhance the value of all the adjacent property, and I believe it is one of the cases where special betterment assessments might properly be levied. The whole subject is deserving of searching investigation by the present City Council.

I presume further efforts will be made during the present year to acquire the so-called Sanborn field as a public park. If

this tract and the Wyatt pit grounds should be converted into a park, it would be of great advantage to that part of Ward 2 in which the lands lie. Many of the residents of the ward are desirous of the success of the proposed measure. They believe that the real estate in the vicinity of the park would rapidly appreciate in value, and the people residing in the neighborhood would be greatly benefited in many ways. Unless steps are soon taken to secure Sanborn field for public purposes, it is probable that the land will be closely built up with cheap tenement blocks. It will be for you to decide whether the borrowing capacity of the city will permit of the purchase of the land at this time, and of the relative importance of the undertaking considered with reference to other projects.

It is probable that the present year will witness the completion of a broad and beautiful boulevard connecting our city with the Middlesex Fells. The projected boulevard will furnish a direct and convenient approach to the Fells reservation, and enable our citizens to avail themselves of the pleasures and advantages afforded by such a noble and extensive forest domain. The boulevard will run from the Fells, through Malden and Wellington, to the easterly end of the Broadway Park. I believe it would be of great benefit to Somerville to secure the extension of the boulevard to Broadway. This could be easily and cheaply done by widening Winthrop avenue. A line of electric cars will doubtless be established along the course of the boulevard, so that a ride of ten minutes will bring our people to one of the main entrances to the Fells reservation. Quick communication between Somerville and the Fells will be of great advantage to our city. As yet, comparatively few of our people have become intimately acquainted with the Fells region, and a delightful surprise is in store for them when they explore its charming nooks and leafy wildernesses. The Fells reservation is really a part of the Somerville park system, and I desire that our citizens should think of it as such. Somerville has been largely assessed on account of the Metropolitan park system, and we are called upon to make liberal contributions each year to its maintenance. The construction of the Fells boulevard will be the first important step taken towards bringing the advantages of this great system within easy reach.

I would recommend that you arrange for an early conference with the City Government of Medford and the Selectmen of Arlington upon the question of the improvement of the banks of the Mystic River. If the cities and towns in interest should make a forcible presentation of their case to the Metropolitan Park Commission, I believe something might be done towards securing a parkway along the banks of the Mystic which would be of lasting value to our city.

Another enterprise which deeply concerns Somerville is the extension of the Mystic Valley driveway or boulevard from its present terminus in West Medford to Powder-house square. This could be done at a comparatively small expense, and, taken in connection with Broadway and the Fells boulevard, would make a circuit drive of unsurpassed beauty and diversity.

The setting out of trees in our highways should be encouraged, the trees already standing in our streets should be properly trimmed and cared for, and every request for the cutting down of shade trees carefully investigated.

It is a most propitious sign of the times that our people are carefully studying the problem of how to make the city more beautiful and attractive, and the women of Somerville are deserving of particular commendation for their zealous efforts, of late, to rightly educate and direct public sentiment upon this important question.

FIRE DEPARTMENT.

Our city continues to enjoy remarkable immunity from serious conflagrations, a condition which may be partly due to the efficiency of our Fire Department. The department, in many respects, is in excellent condition. It is in the hands of capable and energetic men, who perform every duty assigned to them with intelligence and zeal. The members of the various companies show their interest in their work, not only by quick response and vigorous action when called out by an alarm, but also by the careful attention which they give to the buildings and apparatus under their control.

With the single exception of the hose house at the corner of Washington and Prospect streets, the Fire Department buildings are commodious and in excellent repair, and we need not expend much money upon them during the present year.

The fire station at the corner of Broadway and Cross street was completed last June, and immediately occupied by Engine Company No. 2 and hose wagon. It is an imposing and roomy structure, and forms a valuable addition to the Fire Department buildings of the city. The entire cost of the land and building was \$28,010.68. At a future date it will doubtless be necessary to place other fire apparatus in the building. This, however, need not be done the present year.

Fire Station No. 4, at the corner of Highland avenue and Grove street, was enlarged, remodeled, and put in thorough repair during the past year, at an expense of \$7,054.42.

A lot of land has been purchased near the junction of Holland street and Broadway as a site for a fire station, to meet the needs of the westerly and northerly sections of our city. This building should be erected as soon as the financial condition of the city will allow, as the district in which it will be located is not as well protected against fire as other parts of the city. I would commend to your favorable attention the recommendation of the Chief Engineer, that a hose wagon be placed in the house of Engine Company No. 4, and for the transference of the chemical engine now in said house to the house of Hook and Ladder Company No. 2. This should be done for the further protection of the valuable property in Davis square and other parts of West Somerville.

The suggestion of the Chief Engineer, that a new steam fire engine is needed, to serve as a reserve or substitute engine in cases of emergency, and while other pieces of apparatus are undergoing repairs, is a good one; but I fear you will not be able to obtain funds for its purchase and equipment the present year.

With the introduction of the new Metropolitan water supply, we are likely to obtain a much stronger hydrant pressure on the high lands of the city, and I would recommend that the Committee on Fire Department co-operate with the Water Board in

an effort to secure a large storage reservoir at some elevated point in the Middlesex Fells.

The growth of the Fire Department during the last few years has been very rapid, and the expense of its maintenance has necessarily increased in corresponding ratio. The cost of carrying on the department during the past year, exclusive of the sum of \$1,000 expended on funded debt account for signal boxes, was \$60,926.75.

POLICE DEPARTMENT.

The regular police force now numbers forty-two men, and there is a so-called reserve force of six men. This reserve force was established in the year 1895 under a legislative enactment, the purpose of which was to create a small body of men who could be temporarily assigned to duty in cases of emergency, and who should be gradually fitting themselves to fill vacancies occurring from time to time in the regular force. Soon after the passage of the law, a reserve force numbering eight men was established, and almost immediately assigned to active duty. They have been kept in constant service down to the present time, and have really had the standing and received the compensation of regular officers. Two members of the force have been commissioned as regular patrolmen, so that the reserve force now numbers six men.

While I cannot approve the somewhat adroit and circuitous method adopted for increasing our regular police force, I yet believe that it is none too large for efficient and satisfactory service. If the appropriation for the maintenance of the department could be increased sufficiently to meet the added expense, it would, in my judgment, be wise to enlarge the regular police force by promotions from the reserve squad. If such a step should be taken, it might be desirable to add to the reserve force, the appointees to be reserve officers in fact as well as in name.

I believe the Somerville Police Department is, on the whole, composed of active and capable men, and I am pleased to commend its excellent work.

Several members of the department are considered by the Chief, by reason of their age and physical infirmities, to be par-

tially disqualified for active duty, and yet they are retained upon the force at full compensation. The older members, who have served the city faithfully for many years, are deserving of the most considerate treatment at our hands, but we are hardly justified in retaining in active service as a patrolman any man who is physically incapable of performing all the duties incident to his vocation. The time is not far distant when a complete reorganization of the force should be undertaken.

If Somerville is to maintain its reputation as an asylum for the tramps of all the neighboring cities, some building other than the Police Station should be found for housing them. It is hard to turn these unfortunate specimens of humanity into the street, but I do not see how we can safely continue the generous policy towards them which has been pursued in the past. Some means should be devised for compelling the army of tramps which marches into the station each night to perform some service in return for the city's bounty.

The cost of maintaining the Police Department last year was \$55,691.62.

ENFORCEMENT OF LIQUOR LAW.

During the entire year only two or three complaints have reached me in regard to the illegal sale of intoxicating liquors, and these have been in every case, if my memory is not at fault, in the form of anonymous letters. To such communications I have not felt that it was my duty to give serious attention. A citizen who has positive knowledge of the infraction of any law, and is desirous of bringing the law-breaker before the courts, ought to be willing to stand back of the charges which he makes. I shall be glad if, during the present year, my attention is directed to any violation of the liquor law. I have but one desire and purpose in this matter, namely, to carry out the will of the people, as expressed by their votes, with unflagging zeal and inflexible impartiality. My instructions to the Police Department will be of such a nature as to leave them no excuse for any lack of diligence in ferreting out and prosecuting the illegal sale of intoxicants in this city.

CITY HALL IMPROVEMENT.

Ever since the incorporation of Somerville as a city, plans have been presented from time to time for the enlargement of the City Hall, but each in turn was rejected and no real progress made. For many years past, owing to a lack of suitable room, every department in the building has been obliged to transact business under the most exasperating conditions. The relief so long desired has at length been furnished, and the several city officers and boards will henceforth be able to carry on their business in a convenient and proper manner.

I believe all thoughtful citizens are glad that the old City Hall has been enlarged and improved, instead of creating a burdensome debt for the erection of a new building. Ample room has been provided for the various city departments, and the unsightliness of the old building has been noticeably relieved. The erection of a new City Hall would have involved an expenditure of not less than \$300,000, and the annual outlay for interest and sinking fund requirements on such a debt, together with the extra expense of maintaining a large and elegant building, would have been felt as a grievous burden for many years to come. This money has been saved by the prudent and sagacious action of last year's City Council, and can be hereafter expended for the erection of schoolhouses, the building of streets and sewers, and for other improvements of the highest utility. There is no department in the City Hall which will not be fully accommodated, when the new addition is completed, and the old building remodeled. While a new building would have been more elegant, and supplied a pleasing architectural feature to our Central Hill, it could not have served the actual needs of the several departments much better than the old building in its reconstructed form. We have been able to remodel and enlarge the old structure at a comparatively small outlay; small, indeed, as compared with the cost of a new building. The total expenditure upon the old building does not greatly exceed what would have been required in a single year for payments of interest and principal upon the debt which would have been created by the erection of a new building.

I should have been pleased to see a stately and magnificent City Hall standing upon the crest of Central Hill, if the city had been in a financial condition to justify such an expenditure. The time has not yet come when Somerville can afford to incur a debt of not less than \$300,000 merely to provide an imposing piece of architecture. We need the money for other and more practical purposes. We need it for necessities, for those things for which the city is at present suffering, and for the lack of which our citizens have long complained. We need it for the erection and equipment of public school buildings, for the increase of our Police Department, for the extension of our sewer system, and especially for the improvement of our highways. I trust the day is not far distant when our financial condition will be so strengthened and improved that we may add pleasing architectural features to our Central Hill Park; but this ought never to be indulged in to the extent of impairing our credit or crippling our public service.

SOMERVILLE HOSPITAL.

The Somerville Hospital is already firmly established in public favor, and its field of usefulness becomes broader with each passing year. Its tender and humane ministrations are extended to all our people, regardless of class or condition. Such an institution reflects great credit upon our city, and stands as a fitting monument alike to its noble founder and to the generous-hearted men and women who annually contribute to its support. No words can measure the service which it renders to afflicted and unfortunate humanity. Day after day it wages its silent and beneficent warfare with disease and pain, winning the love and gratitude of those whom it rescues and restores. While it is a private institution, and the City Council cannot lawfully appropriate money for its use, I yet trust that its appeals for funds to carry on its work during the present year will meet with prompt and liberal response from our philanthropic citizens. It is also to be hoped that the benevolent men and women of Somerville will not forget to make the hospital an object of their testamentary bounty.

ARMORY BUILDING.

The members of our local militia company feel that some steps ought to be promptly taken for providing suitable armory and drill-room accommodations for their organization. There is much of reason in this claim. Their present quarters in the Police Station building are cramped and inconvenient, and the space which they occupy is needed for other purposes. Every citizen of Massachusetts is justly proud of her volunteer soldiery. They have stood as the embodiment of unwavering loyalty and heroism in the perilous days of the past. We look to them as our protectors against whatever dangers may threaten in the future.

It is gratifying to know that we have in our city an infantry company of excellent character and efficiency, and we ought to do all that our financial resources will fairly warrant to encourage its members to maintain the present high standard of their organization. This company is composed of men who are not only proud of the State Militia to which they belong, but they are also loyal, in the truest sense, to the city in which they dwell. I do not believe they would either request or desire the immediate erection of a costly armory building if they were convinced that injury to the city was likely to result from such an undertaking.

It is an absolute requirement of the statutes of this Commonwealth that cities and towns shall provide suitable armories for the military organizations within their respective limits; but no particular person or tribunal is named as the final judge of the fitness of the accommodations provided. I assume that our Somerville company would be satisfied with comfortable and convenient quarters, even if the rooms were not in an elegant building.

Near the close of the last municipal year plans for an armory building were procured by members of the City Council, acting upon their individual authority, and these plans will come before you for adoption or rejection. They provide for officers' quarters, storage of military equipments and property, memorial room, apartments for the local Grand Army Post, and a public

hall and drill-room combined. In the erection of this building it is designed to utilize the old engine house at the corner of Highland avenue and Walnut street as a part of the edifice.

While I cannot now take time to discuss these plans in detail, I will say that they seem to me in many respects objectionable. They provide for a building of varied uses, when the statute expressly states that "Armories provided for the militia shall not be used for any purpose whatever other than the legitimate uses of the commands occupying them." The erection of such a structure would, in my opinion, entail an expenditure of not less than \$75,000, and the maximum yearly rent which the state is allowed to pay is \$400. I am confident that you will carefully consider every phase of the question before engaging in so costly an enterprise. The proposed public hall, with a seating capacity of 2,500, would be useful on two or three occasions each year, but you may possibly share my doubt as to the expediency of creating a large public debt for such a purpose. Even from an architectural and aesthetic standpoint, the erection of a low building, nearly two hundred feet in length, along the Highland avenue frontage of the Central Hill Park is open to grave objection. It would seem desirable to retain in an open condition as large an area of the park as possible, as a pleasure ground for our people.

When the Franklin schoolhouse is abandoned, as it will be upon the completion of a new twelve-room building in that district, it could, perhaps, be remodeled and enlarged so as to serve for several years as an armory and drill-room. If such a plan is feasible, it would be much less costly than to build on the Highland-avenue and Walnut-street lot, and the large tract of land appurtenant to the old school building, with its many beautiful shade trees, would serve admirably, not only for the military company's out-door drills and parades, but also as an open playground for children when not in use by the company.

BRIDGING THE FITCHBURG RAILROAD.

A petition was presented to last year's City Council, asking for the construction of a bridge across the tracks of the Fitchburg railroad at Kent street. This petition was referred to the

present City Council, and is deserving of your careful attention. I would recommend that an early public hearing be given to the petitioners for the presentation of all pertinent facts.

As you well know, there is at present no public crossing over the railroad location between Park street and the northerly terminus of Beacon street, a distance, measuring along the railroad, of 3,200 feet. The private crossings at Kent street and Sacramento street, used for many years by the residents of the district, have been repeatedly closed of late by the railroad corporation. Owners of land abutting on these two streets deny the right of the corporation thus to interfere with a valuable privilege which, as they assert, either rests upon reservations in ancient deeds, or has ripened into a permanent easement by long-continued use. Some of these owners have from time to time partially demolished the barriers set up by the railroad company, and the people continue to cross the tracks, despite the corporation's fences, and in defiance of its threats. The present state of affairs is exceedingly annoying to residents of the Kent street district, and I shall be glad if some suitable means of relief can be devised.

There are many reasons for looking with favor upon the plan for an overhead crossing, either at Kent street or Sacramento street. The lands lying between Beacon street and the Fitchburg railroad are now quite closely built upon. Two public school buildings stand upon Kent street, one on each side of the railroad. The only fire station in the neighborhood is located on Somerville avenue, directly opposite Sacramento street. A very beautiful section of the City of Cambridge, lying south of Beacon street, is conveniently approached from Kent street. One of the most serious features of existing conditions is the danger to life incurred by the many children who daily crawl through the fences and cross the railroad tracks, along which express trains are almost hourly passing at a high rate of speed.

There can be no doubt that an urgent necessity exists for a crossing, by bridge or otherwise, at or near Kent street. The first question of importance for you to decide is this: Is it incumbent upon the city to provide such a crossing? Surely it is not if the owners of abutting lands have a right to demand from

the railroad company the maintenance of a suitable crossing. This right, if it exists, can only be established by an appeal to the courts. Would it be unreasonable to ask the landholders to take steps for a complete adjudication of this question before any expense is incurred by the city for the erection of a bridge? It is of great importance to Somerville, in view of the provisions of the grade crossing act to which I shall briefly refer, that the exact status of the Kent and Sacramento street crossings should be determined before any new bridges are built.

In the year 1890 the Legislature passed an act to promote the abolition of grade crossings. Many cities and towns have already availed themselves of the provisions of this law, and millions of dollars have been expended along the lines of the various railroads in changing grades, and for the building of bridges and subways. It is not improbable that steps will be taken in the near future to do away with the present dangerous and inconvenient grade crossings in this city. The use of both the railroads and the highways is increasing so rapidly that the public will not be long content to endure the vexations and dangers incident to existing crossings. The present Somerville avenue crossing is a source of daily annoyance and peril to thousands of our citizens. The building of a costly bridge at Kent street or Sacramento street would be an unjustifiable waste of money, if, a few years hence, commissioners appointed under the statute should order the abolition of all grade crossings, in a way which would necessitate a radical change in the present grade of the railroad.

Members of last year's City Council, who consulted with the officers of the Fitchburg railroad in relation to the proposed Kent-street bridge, reported that the corporation was willing to assume only a small part of the cost of the bridge. We have no reason to expect any greater liberality on the part of the corporation this year. If we now build the bridge, nearly the entire cost of its construction and the whole expense if its maintenance must be borne by our city. Under the provisions of the grade-crossing act, sixty-five per centum of all expense incurred in construction is assessed upon the railroad corporation, and not more than

ten per centum can in any case be placed upon the city. In the case of an overhead bridge built under the act, the framework of the structure and its abutments would be maintained and kept in repair by the railroad company, and the surface of the bridge and its approaches by the city. While the entire grade crossing question is in an unsettled state, it would seem to be the part of wisdom not to incur any heavy expense in the erection of a full-width bridge. Either an overhead bridge or subway for foot travel only is, in my opinion, all that the city ought to provide in advance of final action upon the abolition of grade crossings.

If an overhead foot-bridge or subway is built, I believe it should be located at Sacramento street, rather than at Kent street, so as to divide more evenly the distance between existing bridges. As I have previously stated, the distance between the present bridges at Park street and Beacon street is 3,200 feet. The distance from Park street to Sacramento street is 1,650 feet, and from Sacramento street to Beacon street, 1,550 feet. You will, therefore, see that Sacramento street is very nearly midway between Park street and Beacon street, while Kent street is only 1,000 feet from Park street, and 2,200 feet from Beacon street. It is possible that Kent street would be a better place for a full-width bridge, because of its greater length between Somerville avenue and the railroad.

TAXATION QUESTION.

Our present system of taxation is crude and chaotic, and bears heavily upon Somerville. You can render your city no better service than by intelligent labors for the revision of the present tax laws. We have in our community but few persons who pay any considerable tax on personal property. Almost the entire burden falls upon real estate. Men who have large holdings of taxable personal property are able to congregate in a favored locality and build up a sort of tax-dodgers' paradise. If it were proper, I could name several Massachusetts towns, conspicuous centres of wealth, whose prosperity and popularity are largely due to the fostering influence of our present unjust laws of taxation. I would suggest that the Committee on Legislative

matters, in conjunction with the City Solicitor, give careful attention to this subject, and that they be directed to appear before the present Taxation Commission and urge such amendments to existing laws as shall seem to them equitable and expedient. After a somewhat careful study of the subject, I am convinced that the time has come for abolishing the last vestige of double taxation, that a substantial and carefully graduated tax should be levied upon the estates of deceased persons, and that all revenues derived from the taxation of bank stock in corporations should be applied, in the first instance, to the payment of state and county taxes.

CHARTER REVISION.

At the very commencement of your term of service you will be called upon to grapple with the intricate question of the revision of our city charter. Having lately made a somewhat extended statement to the Charter Commission of my own views upon the subject, I shall not take time to-day to enter into any detailed recommendations. I will simply state that I heartily approve, in the main, of the suggestions contained in the majority report of the Commissioners.

I trust you will enter upon the study of the question with unbiased minds, and conduct your investigations in a broadly non-partisan spirit. I would specially counsel you against a narrow conservatism in dealing with so important a topic. It is not enough to say that we have secured fairly good results under the old charter, hence it is inexpedient to sanction radical changes. If we had been controlled by the same sort of reasoning in the past, we should to-day be riding across the country in stage coaches, and reading "Pilgrim's Progress" by the light of a tallow candle. If you take time for thorough investigation, you will find that the leading recommendations of the Commissioners conform to the best thought and practice of modern times upon the subject of municipal government.

PUBLIC SCHOOLS.

I cannot speak in too high praise of the earnest, efficient work which is being done in our public schools. We have a corps of able and enthusiastic teachers, teachers who realize the

dignity and responsibility of their vocation, and labor with tireless zeal for the welfare of the pupils under their charge.

The sentiment of our community will not tolerate the slightest lowering of the standard of our public schools. The taxpayers do not regret the expenditure of any dollar which goes for the erection of commodious school buildings, for the compensation of intelligent and faithful teachers, for the carrying out of the best methods of public instruction. Wherever else we may look for scepticism upon the subject of free public education, we shall find no trace of it in any city of this Commonwealth. In a free republic like ours everything depends upon the intelligence and virtue of the masses. It is to the schoolrooms of the land we must chiefly look for the inspiration and training which shall develop the noblest traits of character, which shall foster the loftiest patriotism, which shall produce the highest types of citizenship.

Schoolhouses must be built to meet the demands of our rapidly growing city, but in their erection and equipment no unnecessary expense should be incurred. In dealing with those intellectual agencies, which are the very foundation of all our material and moral prosperity, no niggardly policy should be pursued; but care and prudence should be exercised in the management of a department which calls for such liberal expenditures of money. Those who are entrusted with the administration of our public schools ought to feel it their duty to make the burden of taxation as light as is compatible with the highest efficiency of the system.

Many of our citizens will be surprised to learn that the new English High School building is already outgrown. It was supposed that, upon the completion of this building, the needs of the High school pupils would be supplied for many years to come; and yet we are confronted with the unwelcome fact that there have been times during the past year when all the attendants at this school could not be accommodated with desks. The School Committee recommend that steps be taken at once to enlarge the building by the addition of a wing projection containing seven rooms. At the time the plans of the building were accepted, it was not known that provision must be made for a manual train-

ing plant, and no suitable rooms were allotted by the architect for such a department. The present manual training quarters, in the basement of the building, are not well adapted to the purpose, and some disturbance is occasioned in the schoolrooms above by the noise and vibration of the machinery. At the earliest practicable day a wing should be added to the building for the exclusive accommodation of this department. There would be some advantage in placing the manual training department in a separate building, as is done in Cambridge; and it is possible that the vacant engine house at the corner of Highland avenue and Walnut street could be fitted up for such a purpose. This building is heavily timbered, and otherwise well constructed to withstand the jar of heavy machinery. As a temporary expedient, for the accommodation of pupils during the present year, I would recommend the transfer of the office of the Superintendent of Schools to some other building. The rooms which he now occupies in the English High School building can then be converted into a classroom for about forty pupils. I would also suggest that you institute a careful inquiry into the feasibility of placing additional seats in existing classrooms. In last year's inaugural address I reluctantly called attention to a serious blunder which had been made in the size of the several classrooms. We now fully realize the costliness of the mistake, when we are asked to enlarge a new building which should have furnished ample accommodations for many years, but for the strange oversight of those who planned the edifice. Would it not be proper, merely for the information of the public and as a guide for future action, to make such investigation as shall fix the responsibility for a blunder which will cost our city thousands of dollars, a blunder for which no human ingenuity can provide a remedy? We are all proud of the English High school as a branch of our educational system. It is doing a grand work, and its rapid growth proves how highly it is appreciated by the public. Its usefulness must not be impaired by any narrow or thoughtless parsimony.

The West Somerville and Winter Hill districts were greatly relieved last year by the completion of the William H. Hodgkins schoolhouse, and the addition of five rooms to the Jacob T.

Glines building. The Sanford Hanscom schoolhouse, when finished, will meet the requirements of East Somerville for several years to come. This year your efforts should be directed to providing accommodations for other parts of the city.

The erection of a new twelve-room building in the Spring Hill district ought not longer to be put off. I would recommend that a lot of land be purchased and plans for the building procured at the earliest possible moment. Every public-spirited citizen regrets that such unsuitable and dilapidated buildings as the Beech-street and Franklin schoolhouses should have been so long kept in use. Their places should be immediately taken by a spacious modern building, similar to those erected of late in other parts of the city. No better location could be found for the new building than on the Beech-street lot.

You ought also to consider the advisability of building a four-room schoolhouse on Washington street, between the Fitchburg railroad and Beacon street. Such a building is needed for the relief of the schools in the Prospect Hill district, and would permit of the abandonment of the old Harvard schoolhouse. Large sums have been expended during the past year in the improvement and repair of some of our older school buildings. A new heating and ventilating system has been adopted for the Luther V. Bell school, and the old sanitary appliances in the Forster school have been replaced by modern fixtures of the most approved design. I believe these two buildings are now in excellent sanitary condition. I would advise the purchase of a lot of land near the corner of Central and Albion streets as a site for a twelve-room schoolhouse.

I would recommend such changes in the city ordinances as will permit of the payment of school teachers' salaries on the first day of each month.

There never was a time when our free public schools were held in higher esteem than at the present hour. They are so broad in their scope and catholic in their spirit as to commend themselves to men of all classes, conditions, and creeds. They stand for the very highest and finest type of Republican communism, where the representatives of every race and creed sit at

a common table and partake of a repast which each has helped to furnish. They are, and ought always to remain, absolutely non-sectarian. While the teaching of creeds and dogmas is prohibited within their hospitable walls, the precepts of natural religion and the ethics of undogmatic Christianity are carefully inculcated. Each child is taught obedience to the universally recognized moral law; is ceaselessly reminded of the obligation which he is under to cultivate the best traits of kindness, truthfulness, honesty, purity. This is all we have a right to expect in schools supported by representatives of every sect and shade of belief. God forbid that the harsh clamor of political strife or the fetid breath of sectarian hate should ever profane those sacred temples of humanity, wherein our children daily worship at the stainless altar of wisdom and virtue.

SOLDIERS' MEMORIAL.

Most earnestly I renew the recommendation contained in last year's inaugural address for the erection of a soldiers' monument on Central Hill. Every instinct of patriotism demands that this work shall not be longer delayed. It has ceased to be a mere question of expediency, and has risen to the dignity of a sacred obligation. It must not be confounded with any other project, however meritorious.

I have not a word to say against any proper and lawful plan for providing the Grand Army of the Republic with a suitable room for its business and social gatherings. I will cheerfully do all in my power to secure some place where the priceless mementoes of the Revolutionary and Civil Wars may be preserved and properly displayed. But when I speak of a soldiers' memorial, I mean something altogether different from these. I have in mind a monument which shall stand upon our beautiful central hilltop, in the sight of all our people, telling its own story of the heroic exploits of the valiant men of Somerville; the men who cheerfully offered up their lives on the altar of their country. When they left their homes, more than thirty years ago, their eyes turned lovingly to that grassy eminence, crowned in those days with only two plain brick buildings,—the one a schoolhouse,

and the other a house consecrated to the worship of God. The spot was dear to them; but they knew not whether their eyes should ever look upon it again. During those direful years of conflict they endured every hardship and made the grandest sacrifices, and it is our duty to see to it that a suitable memorial shall tell to the oncoming generations the story of their heroic deeds. Such a memorial is not to be found in any room in a public building, but rather in a votive shaft which shall stand out by itself, under the same blue sky beneath which they camped on many an anxious day and many a lonely night; out in the glare of the midsummer sun, whose scorching rays they endured on many a tiresome march; out in the wind and storm and tempest, before which their dauntless spirits never quailed. Such a memorial, as I have said, would tell its own story. Every man, woman, and child, looking upon it, would know that it stood as this city's tribute to the memory of her valiant sons, and generations yet unborn would gain inspiration and learn priceless lessons of patriotism from its silent but eloquent form. Let no man say that Somerville cannot afford thus to commemorate the fidelity of her martyred children. She will indeed show her poverty in the highest traits of gratitude and affection if she longer neglects a tender and sacred duty to her brave and loyal sons.

I shall be compelled to discuss, in later messages to your honorable boards, certain questions of great importance relating to the water, health, street lights, and poor departments, and, possibly, to the establishment of free public baths. It seems proper to suggest, in this connection, the propriety of printing in the annual reports all messages from the Mayor to the City Council which relate to subjects of general and permanent interest. In conclusion, permit me to remind you, gentlemen, that you are trustees for the entire body of citizens who dwell in Somerville, and should act with that prudence, diligence, and honesty which are demanded of those who are clothed with the highest fiduciary powers. It will not always be a safe rule to inquire what you might be justified in doing with your own money

under similar circumstances. Trustees are held to a much stricter accountability than this. They must so handle the funds with which they are entrusted as to carry out the objects of the trust in the most prudent and advantageous manner. You have taken an oath to serve your fellow-citizens with honesty and fidelity, and I believe you will strive to the utmost to keep inviolate your pledge. Many of you have accepted public office at a great sacrifice of private interests. For the services you render the city no pecuniary recompense is received. And yet, I feel sure that you will spare neither time nor thought in dealing with those important questions which are committed to your hands. You are the successors of a long line of men who have made a proud record in the offices which you now hold, and I trust the next Mayor of Somerville will be able to say of you, as I so gladly say of them, that they responded cheerfully to the demands which office-holding made upon their time and energy; that they performed every public duty with tireless zeal and unwavering integrity.

We ought to feel proud of this city in which we dwell, especially of the historic associations which cluster about her soil. Cold, indeed, is the patriotism of that man who, walking these streets to-day, hears not from afar the bugle notes of freedom, sees not the bright gleam of those beacon fires of liberty which were kindled upon these hills more than a century ago. Somerville is favored in many important respects. Her standing is high among the cities of the Commonwealth. She represents all that is best in material prosperity and moral advancement. To be connected with the municipal government of such a city is an honor to be highly prized, and I trust no one of us may ever be unmindful of the grave responsibilities incident to such an exalted position. Whether Somerville shall continue in her course of prosperity and fame depends largely upon the wisdom and prudence which you, her chosen representatives, shall display.

REPORT
OF THE
TREASURER AND COLLECTOR
OF TAXES.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, January 27, 1897.
Referred to Committee on Finance, and sent down for concurrence.
GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, January 28, 1897.
Referred to Committee on Finance, in concurrence.
CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

IN COMMITTEE ON FINANCE, February 12, 1897.

TO THE CITY COUNCIL OF SOMERVILLE:—

The Committee on Finance report that in compliance with Section 10, of Chapter 4, of the revised ordinances, they have, in conjunction with the Auditor, and in the manner prescribed by said section, examined and audited the books and accounts of the Treasurer and Collector of Taxes for the year ending December 31, 1896.

The said books and accounts were carefully compared with the books, records, accounts, papers, vouchers and documents of the Auditor, Treasurer, City Clerk, and the several committees, boards and officers of the city, and with the certificates and statement transmitted by the City Clerk, as provided in Section 5 of said chapter.

The committee also carefully verified the cash balance at the close of business, February 12, 1897, as shown by the books and accounts of the Treasurer, such verification having been made by an actual count of the cash on hand and statements from the banks in which the funds of the city were deposited.

The committee take pleasure in reporting, as the result of their examination, that no error or discrepancy was discovered in the accounts and records of the Treasurer and Collector, and expressing their cordial approval of the remarkably neat, methodical and accurate manner in which he has kept the books and accounts of his department, as well as the general efficiency displayed by him in the performance of his important and arduous official duties, and recommend that his report be accepted, and printed in the annual reports of 1896.

ALBION A. PERRY,	}	<i>Committee.</i>
GEO. E. WHITAKER,		
L. HERBERT HUNTLEY,		
F. DE WITT LAPHAM,		
J. W. MACDONALD,		

IN BOARD OF ALDERMEN, February 24, 1897.

Accepted, and sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, February 24, 1897.

Accepted, in concurrence.

CHAS. S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

Treasurer's Office, January 20, 1897.

To the Honorable, the Mayor, and City Council of the City of
Somerville:—

Gentlemen,—The undersigned presents herewith the twenty-fifth annual report of the financial condition of the city, and a statement showing, in detail, the receipts and disbursements for the year ending December 31, 1896.

The value of the property of the city December 31, 1895, was \$2,356,620.40. The property acquired during the year was as follows:—

City Hall Improvement	\$16,137.53
Fire Department, Fire Station No. One	22,052.93
Fire Department, Fire Station No. Four, Im- provement	7,054.42
Fire Department, Land for Fire Station, Claren- don Hill, Ward Four	2,464.20
Highways, City Stable	1,441.00
Highways, Steam Road Roller, No. Two	3,500.00
Schoolhouse, English High	6,843.73
Schoolhouse, Jacob T. Glines, Addition	27,260.71
Schoolhouse, Ward One (Sanford Hanscom)	17,434.78
Schoolhouse, Ward Four, William H. Hodgkins	38,269.12
Water Works Extension	16,631.83

Total amount of property acquired during
the year \$159,090.25

Making the value of the public property, December 31, 1896, as
per Table A, \$2,515,710.65.

The Funded Debt, December 31, 1895, as per Table B, of the last annual report, was \$1,506,500.00.

The debt was increased during the year by appropriations as follows:—

City Hall Improvement	\$22,000.00
Fire Department, Fire Station, Ward One	6,500.00
Fire Department, Fire Station, Ward Four, Improvement	5,000.00
Fire Department, Land for Fire Station, Clarendon Hill, Ward Four	2,500.00
Highways, City Stable	2,000.00
Highways, Steam Road Roller, No. 2	3,500.00
Renewals of Funded Debt	47,000.00
Schoolhouse, English High	7,000.00
Schoolhouse, Jacob T. Glines, Addition	22,000.00
Schoolhouse, Land, Spring Hill District	3,000.00
Schoolhouse, Land, Ward Three	6,000.00
Schoolhouse, Luther V. Bell, heating, ventilating and sanitary apparatus	6,500.00
Schoolhouse, Ward One	35,000.00
Schoolhouse, Ward Four	9,000.00
<hr/>	
Total amount of appropriations on Funded Debt account	\$177,000.00

For which the following bonds were issued, viz.:—

City Loan Bonds Nos. 2058 to 2067, payable 1897, interest 4 per cent	\$10,000.00
City Loan Bonds Nos. 2068 to 2077, payable 1898, interest 4 per cent	10,000.00
City Loan Bonds Nos. 2078 to 2087, payable 1899, interest 4 per cent	10,000.00
City Loan Bonds Nos. 2088 to 2097, payable 1900, interest 4 per cent	10,000.00
City Loan Bonds Nos. 2098 to 2106, payable 1901,	
<i>Amount carried forward</i>	<hr/> \$40,000.00

<i>Amount brought forward</i>	\$40,000.00
interest 4 per cent	9,000.00
City Loan Bonds Nos. 2107 to 2115, payable 1902, interest 4 per cent	9,000.00
City Loan Bonds Nos. 2116 to 2123, payable 1903, interest 4 per cent	8,000.00
City Loan Bonds Nos. 2124 to 2131, payable 1904, interest 4 per cent	8,000.00
City Loan Bonds Nos. 2132 to 2139, payable 1905, interest 4 per cent	8,000.00
City Loan Bonds Nos. 2140 to 2147, payable 1906, interest 4 per cent	8,000.00
City Loan Bonds Nos. 2148 to 2155, payable 1907, interest 4 per cent	8,000.00
City Loan Bonds Nos. 2156 to 2163, payable 1908, interest 4 per cent	8,000.00
City Loan Bonds Nos. 2164 to 2171, payable 1909, interest 4 per cent	8,000.00
City Loan Bonds Nos. 2172 to 2179, payable 1910, interest 4 per cent	8,000.00
City Loan Bonds Nos. 2180 to 2187, payable 1911, interest 4 per cent	8,000.00
City Loan Bonds Nos. 2188 to 2194, payable 1912, interest 4 per cent	7,000.00
City Loan Bonds Nos. 2195 to 2201, payable 1913, interest 4 per cent	7,000.00
City Loan Bonds Nos. 2202 to 2208, payable 1914, interest 4 per cent	7,000.00
City Loan Bonds Nos. 2209 to 2215, payable 1915, interest 4 per cent	7,000.00
City Loan Bonds Nos. 2216 to 2222, payable 1916, interest 4 per cent	7,000.00
Water Loan Bonds Nos. 448 to 459, payable 1897 to 1908, \$1000 annually, interest 4 per cent . .	12,000.00
Total amount of bonds issued in 1896 . . .	<u>\$177,000.00</u>

The following bonds became due and were paid during the year, viz.:—

City Loan Bonds Nos. 1254 to 1263, interest 4 per cent	\$10,000.00
City Loan Bonds Nos. 1593 to 1601, interest 4 per cent	9,000.00
City Loan Bonds Nos. 1734 to 1752, interest 4 per cent	19,000.00
City Loan Bonds Nos. 944 to 948, interest 4 per cent	5,000.00
City Loan Bonds Nos. 1053 to 1062, interest 4 per cent	10,000.00
City Loan Bonds Nos. 1123 to 1126, interest 4 per cent	4,000.00
City Loan Bonds Nos. 1175 to 1181, interest 4 per cent	7,000.00
City Loan Bonds Nos. 1373 to 1396, interest 4½ per cent	24,000.00
Sewer Loan Bonds Nos. 1 to 7, interest 5 per cent	35,000.00
Sewer Loan Bond No. 55, interest 4 per cent .	1,000.00
Sewer Loan Bond No. 38, interest 4½ per cent .	1,000.00
Sewer Loan Bonds Nos. 74 to 77, interest 4 per cent	4,000.00
City Loan Paving Bonds Nos. 16 to 20, interest 4 per cent	5,000.00
Water Loan Bonds Nos. 125 to 136, interest 5 per cent	12,000.00
Water Loan Bond No. 137, interest 5 per cent .	500.00
Water Loan Bond No. 285, interest 4 per cent .	1,000.00
Water Loan Bonds Nos. 321 to 323, interest 4 per cent	3,000.00
Water Loan Bonds Nos. 403 to 404, interest 4 per cent	2,000.00

Total amount of bonds paid during the year. \$152,500.00

Leaving the net Funded Debt, December 31, 1896, as per Table B, \$1,531,000.00.

RESOURCES.

Assessors' warrant for the tax levy, assessed upon the polls and estates of the inhabitants, as follows:—

Real Estate valuation	\$45,224,800.00
Personal Estate valuation	3,846,000.00

Total valuation	\$49,070,800.00
---------------------------	-----------------

A rate of \$15.40 on \$1,000.00 valuation, with 15,361 polls at \$2.00 each, gives the total amount of tax levy \$786,412.32

Borrowed on Funded Debt account to provide for the cost of public improvements, and renewals of City Loan Bonds 177,000.00

Revenue from the Water Works 94,270.17

National Bank and Corporation taxes 21,843.77

Court fees, fines, etc. 5,210.00

Received of County Treasurer for dog licenses 2,506.29

Unexpended balances of 1895 162,693.51

Received from other sources 55,730.46

Total amount of resources	\$1,305,666.52
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The appropriations, credits, and balances of the various accounts were as follows:—

Accounts.	Appropriations.	Credits.	Expenditures and Balances.
City Hall Improvement:—			
Appropriation, Funded Debt account	\$22,000.00		
Transferred from other accounts		\$2,399.46	
Expenditures			\$16,137.53
Balance to be expended in 1897			8,261.93
County of Middlesex:—			
Appropriation	43,327.63		
Expended, County tax			43,327.63

Accounts.	Appropriations.	Credits.	Expenditures and Balances.
Engineering Department:—			
Appropriation . . .	\$10,000.00		
Received . . .		\$36.34	
Expenditures . . .			\$9,456.41
Excess . . .			579.93
Excess and Deficiency:—			
Balance from 1895, \$1,231.33.			
Transferred to Fire Department, \$1,000.00 . . .		231.33	
Balance, excess in 1895 account . . .			231.33
Fire Department:—			
Appropriation, \$51,450.			
Transferred from other accounts, \$5,000.00	56,450.00		
Transferred from Ex- cess and Deficiency account . . .		1,000.00	
Received for fire alarm signal boxes, old materials, etc. . .		682.72	
Expenditures . . .			60,930.75
Deficiency . . .			2,798.03
Fire Department, Fire Alarm Signal Boxes:—			
Transferred from Fire Department, Fire Station, Ward One account . . .	1,000.00		
Expenditures . . .			975.00
Excess . . .			25.00

Accounts.	Appropriations.	Credits.	Expenditures and Balances.
Fire Department, Fire Station, Ward One:—			
Balance from 1895 .		\$9,208.22	
Appropriation, Funded Debt account, \$6,500.			
Transferred to other accounts, \$2,189.54	\$4,310.46		
Received from Con- tractor for heating .		42.47	
Expenditures . . .			\$13,561.15
Fire Department, Fire Station No. Four Improvement:—			
Appropriation, Funded Debt account, \$5,000.			
Transferred from other accounts, \$2,189.54	7,189.54		
Expenditures . . .			7,054.42
Excess			135.12
Fire Department, Land for Fire Station, Clar- endon Hill, Ward Four:—			
Appropriation, Funded Debt account . . .	2,500.00		
Expended			2,464.20
Excess			35.80
Health Department:—			
Appropriation . . .	20,000.00		
Received from sale of offal, permits, li- censes, etc. . . .		1,042.50	
Expenditures . . .			23,320.96
Deficiency			2,278.46

Accounts.	Appropriations.	Credits.	Expenditures and Balances.
Highways:—			
Appropriation, \$60,000.			
Transferred from other accounts, \$2,099.78.	\$62,099.78		
Received for labor and materials		\$5,584.08	
Expenditures			\$68,648.95
Deficiency			965.09
Highways, City Stables:—			
Appropriation, Funded Debt account, \$2,000.00.			
Transferred to High- ways account, \$250.00	1,750.00		
Expenditures			1,191.00
Excess			559.00
Highways, Paving Med- ford Street, Somer- ville avenue to Cambridge line:—			
Balance from 1895, \$13,249.41.			
Transferred to High- ways, Paving Wash- ington street, Med- ford to Joy street, \$5,800.00		7,449.41	
Received for labor and materials		242.95	
Expenditures			6,820.45
Excess			871.91

Accounts.	Appropriations.	Credits.	Expenditures and Balances.
Highways, Paving Wash- ington street, Joy to Tufts street:—			
Balance from 1895, \$3,800.00.			
Transferred to City Hall Improvement account, \$1,340.21 .		\$2,459.79	
Received contribution from West End Street Railway Co. .		1,000.00	
Expenditures . . .			\$3,459.79
Highways, Paving Wash- ington street, Med- ford to Joy street:—			
Transferred from Highways, Paving Medford street, Somerville avenue to Cambridge line account, \$5,800.00.			
Transferred to City Hall Improvement account, \$1,059.25 .		4,740.75	
Expenditures . . .			4,740.75
Highways, Steam Road Roller, No. 2:—			
Appropriation, Funded Debt account. . .	\$3,500.00		
Expended . . .			3,500.00

Accounts.	Appropriations.	Credits.	Expenditures and Balances.
Indigent Soldiers and Sailors:—			
Appropriation . .	\$300.00		
Received of State of Massachusetts . .		\$250.00	
Expenditures . .			\$500.00
Excess			50.00
Interest:—			
Appropriation, \$70,- 000.00.			
Transferred to other accounts, \$11,500.00	58,500.00		
Received interest on taxes, etc. . . .		9,863.43	
Expenditures . .			64,840.46
Excess			3,522.97
Miscellaneous:—			
Appropriation, \$7,000.			
Transferred from In- terest a c c o u n t , \$3,000.00 . . .	10,000.00		
Received costs on taxes, etc. . . .		5,103.51	
Expenditures . .			15,864.52
Deficiency . . .			761.01
Overlay and Abate- ment:—			
Appropriation . . .	21,890.34		
Received for taxes, etc.		18.41	
Applied and to be ap- plied to abatements on taxes			21,908.75

Accounts.	Appropriations.	Credits.	Expenditures and Balances.
Police:—			
Appropriation, \$46,000.			
Transferred from other accounts, \$3,500.00	\$49,500.00		
Received Court fees, fines, etc. . . .		\$5,210.00	
Expenditures . . .			\$55,691.62
Deficiency . . .			981.62

Police Station Inciden-
dentials:—

Appropriation, \$3,000.			
Transferred to Police account, \$1,000.00 .	2,000.00		
Received for rent . . .		900.00	
Expenditures . . .			2,286.86
Excess			613.14

Printing and Stationery:—

Appropriation . . .	6,500.00		
Received for advertis- ing		54.00	
Expenditures . . .			7,088.51
Deficiency			534.51

Public Grounds:—

Appropriation . . .	7,000.00		
Received for labor, etc.		20.25	
Expenditures . . .			6,853.22
Excess			167.03

Accounts.	Appropriations.	Credits.	Expenditures and Balances.
Public Library:—			
Balance from 1895 .		\$120.34	
Appropriation . . .	\$8,000.00	.	
Received for dog li- censes, fines, etc. .		2,896.62	
Expenditures . . .			\$11,006.75
Balance to be expend- ed in 1897 . . .			10.21
Reduction of Funded Debt:—			
Balance from 1895 .		10,438.33	
Appropriation, \$95,- 000.00.			
Transferred to other accounts, \$6,100.00	88,900.00		
Received premium on bonds, income of Water Works, etc. .		12,090.02	
Expenditures . . .			105,500.00
Balance to be expend- ed in 1897 . . .			5,928.35
Renewals of Funded Debt:—			
Appropriation, Funded Debt account . . .	47,000.00		
Bonds renewed . . .			47,000.00
Relief and Burial of Indi- gent Soldiers and Sailors:—			
Appropriation . . .	7,000.00		
Received of State of M a s s a c h u s e t t s , burials		315.00	
Expenditures . . .			7,537.91
Deficiency . . .			222.91

Accounts.	Appropriations.	Credits.	Expenditures and Balances.
Salaries:—			
Appropriation . . .	\$5,700.00		
Received bank and corporation taxes and Engineer's as- sistants . . .		\$22,597.57	
Expenditures . . .			\$30,054.08
Deficiency . . .			1,756.51
School Contingent:—			
Appropriation, \$18,- 000.00.			
Transferred to School- house Incidentals account, \$1,200.00.			
Transferred from In- terest account, \$4,- 000.00 . . .	20,800.00		
Received from School-			
house Incidentals account for water and gas . . .		549.84	
Received for tuition of non-resident pupils, etc.		264.14	
Expenditures . . .			22,651.12
Deficiency . . .			1,037.14
School Contingent, Jani-			
tors' Salaries:—			
Appropriation . . .	13,000.00		
Expenditures . . .			12,805.39
Excess			194.61

Accounts.	Appropriations.	Credits.	Expenditures and Balances.
School Fuel:—			
Appropriation . . .	\$10,000.00		
Expenditures . . .			\$9,975.93
Excess			24.07
Schoolhouse, English High:—			
Appropriation, Funded			
Debt account . . .	7,000.00		
Expenditures . . .			6,843.73
Excess			156.27
Schoolhouse, Jacob T. Glines Addition:—			
Appropriation, Funded			
Debt account, \$22,- 000.00.			
Transferred from other accounts, \$4,500.00	26,500.00		
Expenditures . . .			27,260.71
Deficiency			760.71
Schoolhouse Incidentals:—			
Appropriation, \$15,- 000.00.			
Transferred from School Contingent account, \$1,200.00	16,200.00		
Received insurance, etc.		\$1,313.91	
Expenditures . . .			21,101.43
Deficiency			3,587.52

Accounts.	Appropriations.	Credits.	Expenditures and Balances.
Schoolhouse, Land, Spring Hill District:—			
Appropriation, Funded Debt account, \$3,- 000.00.			
Transferred to School- house, Jacob T. Glines Addition ac- count, \$2,500.00 .	\$500.00		
Balance to 1897 .			\$500.00
Schoolhouse, Land in Ward Three:—			
Appropriation, Funded Debt account .	6,000.00		
Balance to be expend- ed in 1897 . . .			6,000.00
Schoolhouse, Luther V. Bell, Heating, Ventilating and San- itary Apparatus:—			
Appropriation, Funded Debt account, \$6,- 500.00.			
Transferred from Re- duction of Funded Debt account, \$100.00 . . .	6,600.00		
Received for damage to desks . . .		\$12.50	
Expenditures . . .			6,863.26
Deficiency . . .			250.76

Accounts.	Appropriations.	Credits.	Expenditures and Balances.
Schoolhouse, Ward One:—			
Appropriation, Funded			
Debt account . . .	\$35,000.00		
Received from sale of buildings		\$1,437.00	
Expenditures			\$17,434.78
Balance to be expend- ed in 1897			19,002.22
Schoolhouse, Ward Four:—			
Balance from 1895 . .		30,479.78	
Appropriation, Funded			
Debt account, \$9,- 000.00.			
Transferred to Fire Department, Fire Station No. 4 Im- provement account, \$1,000.00	8,000.00		
Received for sand ,etc.		128.00	
Expenditures			38,269.12
Excess			338.66
School Teachers' salaries:—			
Appropriation	150,000.00		
Expenditures			140,096.72
Excess			9,903.28
Sewers Construction:—			
Balance from 1895 . .		41,791.10	
Transferred from Sew- ers account of 1895		50,000.00	
Received for permits, etc.		508.97	
Expenditures less as- s e s s m e n t s (\$22,- 108.31)			64,490.24

Accounts.	Appropriations.	Credits.	Expenditures and Balances.
Sewers, Construction:—			
Balance to be expended in 1897 . . .			\$27,809.83
Sewers, Maintenance:—			
Appropriation, \$7,000.00.			
Transferred from Reduction of Funded Debt account, \$1,500.00 . . .	\$8,500.00		
Received for permits, etc.		\$404.06	
Expenditures . . .			8,243.16
Excess			660.90
Sidewalks:—			
Appropriation, \$10,000.00.			
Transferred to Highways account, \$349.78	9,650.22		
Expenditures less assessments (\$9,640.79) . . .			9,650.22
Street Lights:—			
Appropriation . . .	47,000.00		
Received for old lamp-posts		27.40	
Expenditures . . .			47,209.55
Deficiency			182.15
State of Massachusetts:—			
Appropriation, . . .	30,205.00		
Expended, State Tax . . .			30,205.00

Accounts.	Appropriations.	Credits.	Expenditures and Balances.
State of Massachusetts,			
Non-resident Bank Stock:—			
Appropriation . . .	\$889.35		
Expended non-resident tax			\$889.35
Support of Poor:—			
Appropriation . . .	17,150.00		
Received for aid fur- nished, etc. . . .		\$3,346.86	
Expenditures . . .			21,999.79
Deficiency			1,502.93
Water Loan Interest:—			
Received of City of Boston, water rates		13,612.50	
Expenditures . . .			13,612.50
Water Maintenance:—			
Balance from 1895 .		2,974.50	
Received from City of Boston, water rates, \$60,000.00.			
Transferred to Reduc- tion of Funded Debt account, \$259.89 .		59,740.11	
Received for labor and materials		10,915.71	
Received from Water Service account .		1,698.41	
Expenditures . . .			75,328.73

Accounts.	Appropriations.	Credits.	Expenditures and Balances.
Watering Streets:—			
Appropriation,	\$6,-		
000.00.			
Transferred to Fire Department account,			
\$2,000	\$4,000.00		
Received from abutters, etc.		\$420.08	
Expenditures less as- sessments (\$11,918.44)			\$3,691.73
Excess			728.35

Water Works, Extension:—

Balance from 1895		631.83	
Received from City of Boston, water rates		16,000.00	
Expenditures			16,631.83
	<u>\$963,412.32</u>	<u>\$342,254.20</u>	<u>\$1,305,666.52</u>
	342,254.20		
	<u>\$1,305,666.52</u>		<u>\$1,305,666.52</u>

RECAPITULATION.

Appropriations as per tax levy	\$786,412.32
Appropriations, Funded Debt account	177,000.00
Received revenue from Water Works	94,270.17
<i>Amount carried forward,</i>	<u>\$1,057,682.49</u>

Amount brought forward, \$1,057,682.49

Received National Bank
and Corporation

taxes 21,843.77

Received Court Fines,

Fees, etc. . . . 5,210.00

Received from County of
Middlesex, dog li-

censes 2,506.29

Unexpended balances of

1895 162,693.51

Received from all other

sources 55,730.46

Expenditures \$1,236,975.96

Unexpended balances to 1897 67,512.54

Excess and Deficiency 1,178.02

\$1,305,666.52

\$1,305,666.52

The assets of the city available for the payment of its unfunded liabilities are as follows:—

Cash	\$55,333.45
Real Estate liens	1,339.83
Sewer assessments	14,983.62
Sidewalk assessments	4,535.56
State of Massachusetts, burial of Indigent Soldiers and Sailors	315.00
State of Massachusetts, Indigent Soldiers and Sailors	236.00
State of Massachusetts, State Aid	8,214.00
Taxes	284,274.30
Watering Streets assessments	3,076.66
Total amount of assets	<hr/> \$372,308.42 <hr/>

The liabilities are:—

City Hall Improvement	\$8,261.93
Overlay and abatement	2,142.92
Overplus on tax sales	102.13
Public Library	10.21
Reduction of Funded Debt	5,928.35
Schoolhouse, Land in Ward Three	6,000.00
Schoolhouse, Land, Spring Hill District	500.00
Schoolhouse, Ward One	19,002.22
Sewers, construction	27,809.83
Sundry persons	1,372.81
Temporary Loans	300,000.00
<hr/>	
Total amount of unfunded liabilities	\$371,130.40
Excess of available assets over unfunded liabilities	1,178.02
<hr/>	
	\$372,308.42
<hr/>	

The financial condition of the city, exclusive of its public property, is as follows:—

City Loan Bonds bearing interest at 4 per cent.	\$822,000.00
City Loan Bonds bearing interest at $4\frac{1}{2}$ per cent.	185,000.00
City Loan Sewer Bonds bearing interest at 4 per cent.	114,000.00
City Loan Sewer Bonds bearing interest at $4\frac{1}{2}$ per cent.	15,000.00
City Loan Paving Bonds bearing interest at 4 per cent.	80,000.00
Water Loan Bonds bearing interest at 4 per cent.	248,000.00
Water Loan Bonds bearing interest at 5 per cent.	57,000.00
Water Loan Bonds bearing interest at $5\frac{1}{2}$ per cent.	10,000.00
<hr/>	
Total Funded Debt, City Loan	\$1,040,000.00
Total Funded Debt, Water Loan	315,000.00
Total Funded Debt, Paving Loan (beyond debt limit)	80,000.00
Total Funded Debt, Sewer Loan (beyond debt limit)	96,000.00
<hr/>	
Total Funded Debt	\$1,531,000.00

Total cash receipts for the year, including a balance of \$73,103.06 from the year 1895	\$2,127,699.79
Total cash disbursements	2,072,366.34
Leaving in the treasury the sum of	<hr/> \$55,333.45

A detailed statement of the public property, funded debt, and the receipts and disbursements of the various accounts will be found in the following appendix.

Respectfully submitted,

JOHN F. COLE,
Treasurer and Collector of Taxes.

APPENDIX TO TREASURER AND COLLECTOR'S REPORT.

TABLE A.

PUBLIC PROPERTY DECEMBER 31, 1896.

Central Hill land (13 acres, 5,032 feet		\$200,000.00
City Hall	28,137.53	
Furniture	3,000.00	
	<hr/>	31,137.53
Public Library building . . .	30,967.58	
Public Library	25,000.00	
	<hr/>	55,967.58
Central Fire Station	10,000.00	10,000.00
Latin High Schoolhouse . . .	52,000.00	
Furniture	3,500.00	
Philosophical apparatus . . .	500.00	
	<hr/>	56,000.00
English High Schoolhouse . . .	129,579.39	
Furniture	5,000.00	
Philosophical and manual train- ing apparatus	7,000.00	
	<hr/>	141,579.39
Prescott Schoolhouse, land (21,444 feet) and building	45,000.00	
Furniture	2,000.00	
	<hr/>	47,000.00
Luther V. Bell Schoolhouse, land (23,396 feet) and building . .	45,000.00	
Furniture	2,000.00	
	<hr/>	47,000.00
<i>Amount carried forward</i>		<hr/> \$588,684.50

<i>Amount brought forward</i>			\$588,684.50
Foster Schoolhouse, land (27,499 feet) and building	45,000.00		
Furniture	2,000.00		
			<hr/> 47,000.00
Morse Schoolhouse, land (29,109 feet) and building	45,000.00		
Furniture	2,000.00		
			<hr/> 47,000.00
Edgerly Schoolhouse, land (26,428 feet) and building	45,000.00		
Furniture	2,000.00		
			<hr/> 47,000.00
Highland Schoolhouse, land (23,260 feet) and building	46,837.19		
Furniture	2,000.00		
			<hr/> 48,837.19
Charles G. Pope Schoolhouse, land (27,236 feet) and building	60,000.00		
Furniture	2,000.00		
			<hr/> 62,000.00
William H. Hodgkins Schoolhouse, land (35,034 feet) and building	58,289.34		
Furniture	2,500.00		
			<hr/> 60,789.34
Jacob T. Glines Schoolhouse, land (28,800 feet) and building	71,560.71		
Furniture	2,100.00		
			<hr/> 73,660.71
O. S. Knapp Schoolhouse, land (24,517 feet) and building	48,256.67		
Furniture	2,000.00		
			<hr/> 50,256.67
Bingham Schoolhouse, land (21,017 feet) and building	36,506.87		
Furniture	1,400.00		
			<hr/> 37,906.87
<i>Amount carried forward</i>			<hr/> \$1,063,135.28

<i>Amount brought forward</i>			\$1,063,135.28
Davis Schoolhouse, land (38,152 feet) and building	25,000.00		
Furniture	700.00		
		<hr/>	25,700.00
George W. Durell Schoolhouse, land (13,883 feet) and building	16,179.10		
Furniture	700.00		
		<hr/>	16,879.10
Cummings Schoolhouse, land (11,300 feet) and building	15,000.00		
Furniture	700.00		
		<hr/>	15,700.00
Prospect Hill Schoolhouse, land (25,315 feet) and building	20,000.00		
Furniture	1,000.00		
		<hr/>	21,000.00
Lincoln Schoolhouse, land (17,662 feet) and building	14,000.00		
Furniture	700.00		
		<hr/>	14,700.00
Jackson Schoolhouse, land (11,212 feet) and building	8,000.00		
Furniture	600.00		
		<hr/>	8,600.00
Bennett Schoolhouse, land (20,560 feet) and building	10,000.00		
Furniture	600.00		
		<hr/>	10,600.00
Harvard Schoolhouse, land (9,810 feet) and building	3,500.00		
Furniture	100.00		
		<hr/>	3,600.00
Franklin Schoolhouse, land (33,017 feet) and building	15,000.00		
Furniture	600.00		
		<hr/>	15,600.00
<i>Amount carried forward</i>			<hr/> \$1,195,514.38

<i>Amount brought forward</i>		\$1,195,514.38
Beech Street Schoolhouse, land (6,000 feet) and building	4,500.00	
Furniture	300.00	
	<hr/>	4,800.00
Spring Hill Schoolhouse, land (4,991 feet) and building	1,500.00	
Furniture	100.00	
	<hr/>	1,600.00
Burns Schoolhouse, land (16,080 feet) and building	15,000.00	
Furniture	700.00	
	<hr/>	15,700.00
City Farm, land (10 acres, 12,523 feet)		40,000.00
Cedar Street Schoolhouse	700.00	
Furniture	100.00	
	<hr/>	800.00
City Stables and dwelling-houses		28,322.00
Equipments for highway repairs		18,500.00
Watering carts and sheds		5,000.00
No. 1 Fire Station, land (8,279 feet) and building	27,052.93	
Engine No. 2 and apparatus	4,000.00	
Hose wagon No. 1 and ap- paratus	1,500.00	
Furniture	400.00	
	<hr/>	32,952.93
No. 2 Fire Station, land (5,400 feet) and building	8,000.00	
Furniture	400.00	
Hose wagon No. 2 and ap- paratus	1,500.00	
	<hr/>	9,900.00
<i>Amount carried forward</i>		<hr/> \$1,353,089.31

<i>Amount brought forward,</i>		\$1,353,089.31	
No. 3 Fire Station, land (5,226 feet)			
and building	9,000.00		
Furniture	400.00		
Hose wagon No. 3 and apparatus	1,500.00		
Hook and ladder truck and apparatus	3,400.00		
			14,300.00
No. 4 Fire Station, land (9,100 feet)			
and building	19,054.42		
Furniture	400.00		
Engine No. 4 and apparatus	4,000.00		
Combination wagon and apparatus	2,500.00		
			25,954.42
No. 5 Fire Station, land (39,456 feet)			
and building	16,000.00		
Furniture	400.00		
Hose wagon No. 5 and apparatus	1,500.00		
			17,900.00
Hook and Ladder Station No. 2, land (9,902.7 square feet) and building, equipment and furniture			14,753.71
Central Fire Station, land (10,019 feet) and building	43,603.89		
Furniture	500.00		
Engine No. 1 and apparatus	4,000.00		
Hose Wagon and apparatus	2,000.00		
Two relief hose carriages	1,000.00		
One relief hook and ladder	400.00		
Chemical Engine A and equipment	2,498.53		
			54,002.42
Fire-alarm Telegraph			25,000.00
<i>Amount carried forward</i>			\$1,504,999.86

<i>Amount brought forward</i>		\$1,504,999.86
Police Station, land (15,232 feet) and building	45,000.00	
Furniture	3,000.00	
	<hr/>	48,000.00
Police-signal system and apparatus		8,000.00
Prospect street, land (7,918 feet) and building		7,000.00
Broadway Park (cost \$212,993.20)		125,000.00
Joy street, land (2,960 feet)		500.00
Walnut Hill, land (10,980 feet)		1,000.00
Elm street, land (18,000 feet)		6,000.00
Webster avenue, land (11,050 feet)		4,241.50
Washington street, land, Wyatt's Pit (126,689.77 feet)		4,012.27
Holland street, land (5 acres, 6,806 feet)		20,000.00
Gravel land in Waltham (about 35 acres)		15,000.00
Gravel land in Wakefield (about 1 1-3 acres)		5,000.00
Gravel land rear North street (about 5 43-100 acres)		4,000.00
Nathan Tufts Park (about 4 54-100 acres)		47,649.28
Somerville Water Works, cost		684,608.76
Oliver street, land (63,069 feet)		7,500.00
Whipple street, land (15,240 feet)		800.00
Land on Clarendon Hill, corner Holland street and Newbury street (8,113.1 feet)		2,464.20
Sanford Hanscom Schoolhouse land (12,756 feet) and building unfinished		19,934.78
	<hr/>	
Total amount of public property		\$2,515,710.65

TABLE B.

FUNDED DEBT DECEMBER 31, 1896.

CITY LOAN BONDS.

DATE.	Number of Bonds.	Rate per cent of Interest.	When due.	Denomination.	Amount.
January 1, 1892	1,264 to 1,273	4	Jan. 1, 1897	\$1,000	\$10,000
July 1, 1888	910 to 913	4	July 1, 1897	1,000	4,000
July 1, 1894	1,602 to 1,610	4	July 1, 1897	1,000	9,000
July 1, 1895	1,753 to 1,771	4	July 1, 1897	1,000	19,000
July 1, 1896	2,058 to 2,067	4	July 1, 1897	1,000	10,000
October 1, 1889	949 to 969	4	Oct. 1, 1897	1,000	21,000
October 1, 1890	1,063 to 1,072	4	Oct. 1, 1897	1,000	10,000
October 1, 1890	1,127 to 1,130	4	Oct. 1, 1897	1,000	4,000
October 1, 1891	1,182 to 1,188	4	Oct. 1, 1897	1,000	7,000
October 1, 1893	1,397 to 1,420	4½	Oct. 1, 1897	1,000	24,000
January 1, 1892	1,274 to 1,283	4	Jan. 1, 1898	1,000	10,000
July 1, 1894	1,611 to 1,619	4	July 1, 1898	1,000	9,000
July 1, 1895	1,772 to 1,790	4	July 1, 1898	1,000	19,000
July 1, 1896	2,068 to 2,077	4	July 1, 1898	1,000	10,000
October 1, 1889	970 to 993	4	Oct. 1, 1898	1,000	24,000
October 1, 1890	1,073 to 1,082	4	Oct. 1, 1898	1,000	10,000
October 1, 1890	1,131 to 1,134	4	Oct. 1, 1898	1,000	4,000
October 1, 1891	1,189 to 1,195	4	Oct. 1, 1898	1,000	7,000
October 1, 1893	1,421 to 1,444	4½	Oct. 1, 1898	1,000	24,000
January 1, 1892	1,284 to 1,293	4	Jan. 1, 1899	1,000	10,000
July 1, 1894	1,620 to 1,628	4	July 1, 1899	1,000	9,000
July 1, 1895	1,791 to 1,809	4	July 1, 1899	1,000	19,000
July 1, 1896	2,078 to 2,087	4	July 1, 1899	1,000	10,000
October 1, 1889	994 to 1,002	4	Oct. 1, 1899	1,000	9,000
<i>Amount carried forward, . . .</i>					\$292,000

TABLE B. — CITY LOAN BONDS.—*Continued.*

DATE	Number of Bonds.	Rate per cent of Interest.	When due.	Denomination.	Amount.
	<i>Amount</i>	<i>brought forward,</i>	<i>.</i>		\$292,000
October 1, 1890	1,083 to 1,092	4	Oct. 1, 1899	\$1,000	10,000
October 1, 1890	1,135 to 1,138	4	Oct. 1, 1899	1,000	4,000
October 1, 1891	1,196 to 1,202	4	Oct. 1, 1899	1,000	7,000
October 1, 1893	1,445 to 1,468	4½	Oct. 1, 1899	1,000	24,000
January 1, 1892	1,294 to 1,303	4	Jan. 1, 1900	1,000	10,000
July 1, 1894	1,629 to 1,637	4	July 1, 1900	1,000	9,000
July 1, 1895	1,810 to 1,827	4	July 1, 1900	1,000	18,000
July 1, 1896	2,088 to 2,097	4	July 1, 1900	1,000	10,000
October 1, 1890	1,093 to 1,102	4	Oct. 1, 1900	1,000	10,000
October 1, 1890	1,139 to 1,142	4	Oct. 1, 1900	1,000	4,000
October 1, 1891	1,203 to 1,208	4	Oct. 1, 1900	1,000	6,000
October 1, 1893	1,469 to 1,492	4½	Oct. 1, 1900	1,100	24,000
January 1, 1892	1,304 to 1,313	4	Jan. 1, 1901	1,000	10,000
July 1, 1894	1,638 to 1,646	4	July 1, 1901	1,000	9,000
July 1, 1895	1,828 to 1,845	4	July 1, 1901	1,000	18,000
July 1, 1896	2,098 to 2,106	4	July 1, 1901	1,000	9,000
October 1, 1890	1,143 to 1,146	4	Oct. 1, 1901	1,000	4,000
October 1, 1891	1,209 to 1,211	4	Oct. 1, 1901	1,000	3,000
October 1, 1893	1,493 to 1,516	4½	Oct. 1, 1901	1,000	24,000
January 1, 1892	1,314 to 1,323	4	Jan. 1, 1902	1,000	10,000
July 1, 1894	1,647 to 1,655	4	July 1, 1902	1,000	9,000
July 1, 1895	1,846 to 1,863	4	July 1, 1902	1,000	18,000
July 1, 1896	2,107 to 2,115	4	July 1, 1902	1,000	9,000
October 1, 1891	1,212 to 1,214	4	Oct. 1, 1902	1,000	3,000
October 1, 1893	1,517 to 1,546	4½	Oct. 1, 1902	1,000	30,000
July 1, 1894	1,656 to 1,664	4	July 1, 1903	1,000	9,000
	<i>Amount</i>	<i>carried forward,</i>	<i>.</i>		\$593,000

TABLE B.—CITY LOAN BONDS.—*Continued.*

DATE.	Number of Bonds.	Rate per cent of Interest.	When due.	Denomi- nation.	Amount.
	<i>Amount</i>	<i>brought</i>	<i>forward, . . .</i>		\$593,000
July 1, 1895	1,864 to 1,881	4	July 1, 1903	\$1,000	18,000
July 1, 1896	2,116 to 2,123	4	July 1, 1903	1,000	8,000
October 1, 1891	1,215 to 1,217	4	Oct. 1, 1903	1,000	3,000
October 1, 1893	1,547 to 1,581	4½	Oct. 1, 1903	1,000	35,000
July 1, 1894	1,665 to 1,673	4	July 1, 1904	1,000	9,000
July 1, 1895	1,882 to 1,899	4	July 1, 1904	1,000	18,000
July 1, 1896	2,124 to 2,131	4	July 1, 1904	1,000	8,000
October 1, 1891	1,218 to 1,220	4	Oct. 1, 1904	1,000	3,000
July 1, 1894	1,674 to 1,679	4	July 1, 1905	1,000	6,000
July 1, 1895	1,900 to 1,917	4	July 1, 1905	1,000	18,000
July 1, 1896	2,132 to 2,139	4	July 1, 1905	1,000	8,000
October 1, 1891	1,221 to 1,223	4	Oct. 1, 1905	1,000	3,000
July 1, 1894	1,680 to 1,685	4	July 1, 1906	1,000	6,000
July 1, 1895	1,918 to 1,932	4	July 1, 1906	1,000	15,000
July 1, 1896	2,140 to 2,147	4	July 1, 1906	1,000	8,000
July 1, 1894	1,686 to 1,691	4	July 1, 1907	1,000	6,000
July 1, 1895	1,933 to 1,947	4	July 1, 1907	1,000	15,000
July 1, 1896	2,148 to 2,155	4	July 1, 1907	1,000	8,000
July 1, 1894	1,692 to 1,697	4	July 1, 1908	1,000	6,000
July 1, 1895	1,948 to 1,962	4	July 1, 1908	1,000	15,000
July 1, 1896	2,156 to 2,163	4	July 1, 1908	1,000	8,000
July 1, 1894	1,698 to 1,703	4	July 1, 1909	1,000	6,000
July 1, 1895	1,963 to 1,976	4	July 1, 1909	1,000	14,000
July 1, 1896	2,164 to 2,171	4	July 1, 1909	1,000	8,000
July 1, 1894	1,704 to 1,709	4	July 1, 1910	1,000	6,000
July 1, 1895	1,977 to 1,990	4	July 1, 1910	1,000	14,000
	<i>Amount</i>	<i>carried</i>	<i>forward, . . .</i>		\$865,000

TABLE B.—CITY LOAN BONDS.—*Concluded.*

DATE.	Number of Bonds.	Rate per cent of Interest.	When due.	Denomi- nation.	Amount.
	<i>Amount</i>	<i>brought</i>	<i>forward, . . .</i>		\$865,000
July 1, 1896	2,172 to 2,179	4	July 1, 1910	\$1,000	8,000
July 1, 1894	1,710 to 1,715	4	July 1, 1911	1,000	6,000
July 1, 1895	1,991 to 2,004	4	July 1, 1911	1,000	14,000
July 1, 1896	2,180 to 2,187	4	July 1, 1911	1,000	8,000
July 1, 1894	1,716 to 1,721	4	July 1, 1912	1,000	6,000
July 1, 1895	2,005 to 2,018	4	July 1, 1912	1,000	14,000
July 1, 1896	2,188 to 2,194	4	July 1, 1912	1,000	7,000
July 1, 1894	1,722 fo 1,727	4	July 1, 1913	1,000	6,000
July 1, 1895	2,019 to 2,031	4	July 1, 1913	1,000	13,000
July 1, 1896	2,195 to 2,201	4	July 1, 1913	1,000	7,000
July 1, 1894	1,728 to 1,733	4	July 1, 1914	1,000	6,000
July 1, 1895	2,032 to 2,044	4	July 1, 1914	1,000	13,000
July 1, 1896	2,202 to 2,208	4	July 1, 1914	1,000	7,000
July 1, 1895	2,045 to 2,057	4	July 1, 1915	1,000	13,000
July 1, 1896	2,209 to 2,215	4	July 1, 1915	1,000	7,000
July 1, 1896	2,216 to 2,222	4	July 1, 1916	1,000	7,000
	<i>Total amount</i>	<i>of City</i>	<i>Loan Bonds . . .</i>		\$1,007,000

TABLE B.
SEWER LOAN BONDS.

DATE.	Number of Bonds.	Rate per cent. of Interest.	When due.	Denomination.	Amount.
July 1, 1894	56	4	July 1, 1897	\$1,000	\$1,000
October 1, 1893	39	4½	Oct. 1, 1897	1,000	1,000
July 1, 1894	57	4	July 1, 1898	1,000	1,000
October 1, 1893	40	4½	Oct. 1, 1898	1,000	1,000
July 1, 1894	58	4	July 1, 1899	1,000	1,000
October 1, 1893	41	4½	Oct. 1, 1899	1,000	1,000
July 1, 1894	59	4	July 1, 1900	1,000	1,000
October 1, 1893	42	4½	Oct. 1, 1900	1,000	1,000
July 1, 1894	60	4	July 1, 1901	1,000	1,000
October 1, 1893	43	4½	Oct. 1, 1901	1,000	1,000
July 1, 1894	61	4	July 1, 1902	1,000	1,000
October 1, 1893	44	4½	Oct. 1, 1902	1,000	1,000
July 1, 1894	62	4	July 1, 1903	1,000	1,000
October 1, 1893	45	4½	Oct. 1, 1903	1,000	1,000
July 1, 1894	63	4	July 1, 1904	1,000	1,000
October 1, 1893	46	4½	Oct. 1, 1904	1,000	1,000
July 1, 1894	64	4	July 1, 1905	1,000	1,000
October 1, 1893	47	4½	Oct. 1, 1905	1,000	1,000
July 1, 1894	65	4	July 1, 1906	1,000	1,000
October 1, 1893	48	4½	Oct. 1, 1906	1,000	1,000
July 1, 1894	66	4	July 1, 1907	1,000	1,090
October 1, 1893	49	4½	Oct. 1, 1897	1,000	1,000
July 1, 1894	67	4	July 1, 1908	1,000	1,000
October 1, 1893	50	4½	Oct. 1, 1908	1,000	1,000
<i>Amount carried forward, . . .</i>					\$24,000

TABLE B.—SEWER LOAN BONDS.— *Continued.*

DATE.	Number of Bonds.	Rate per cent. of Interest.	When Due.	Denomi- nation.	Amount.
	<i>Amount</i>	<i>brought forward,</i>	<i>. . .</i>		\$24,000
July 1, 1894	68	4	July 1, 1909	\$1,000	1,000
October 1, 1893	51	4½	Oct. 1, 1909	1,000	1,000
July 1, 1894	69	4	July 1, 1910	1,000	1,000
October 1, 1893	52	4½	Oct. 1, 1910	1,000	1,000
July 1, 1894	70	4	July 1, 1911	1,000	1,000
October 1, 1893	53	4½	Oct. 1, 1911	1,000	1,000
July 1, 1894	71	4	July 1, 1912	1,000	1,000
July 1, 1894	72	4	July 1, 1913	1,000	1,000
July 1, 1894	73	4	July 1, 1914	1,000	1,000
	<i>Total amount</i>	<i>of Sewer Loan Bonds</i>	<i>. . .</i>		\$33,000

TABLE B.—SEWER LOAN BONDS.—*Concluded.*ISSUED UNDER AUTHORITY OF CHAPTER 357, ACTS OF 1895,
BEYOND THE LIMIT FIXED BY LAW.

DATE.	Number of Bonds.	Rate per cent of Interest.	When due.	Denomi- nation.	Amount.
July 1, 1895	78 to 81	4	July 1, 1897	1,000	\$4,000
July 1, 1895	82 to 85	4	July 1, 1898	1,000	4,000
July 1, 1895	86 to 89	4	July 1, 1899	1,000	4,000
July 1, 1895	90 to 93	4	July 1, 1900	1,000	4,000
July 1, 1895	94 to 97	4	July 1, 1901	1,000	4,000
July 1, 1895	98 to 101	4	July 1, 1902	1,000	4,000
July 1, 1895	102 to 105	4	July 1, 1903	1,000	4,000
July 1, 1895	106 to 109	4	July 1, 1904	1,000	4,000
July 1, 1895	110 to 113	4	July 1, 1905	1,000	4,000
July 1, 1895	114 to 116	4	July 1, 1906	1,000	3,000
July 1, 1895	117 to 119	4	July 1, 1907	1,000	3,000
July 1, 1895	120 to 122	4	July 1, 1908	1,000	3,000
July 1, 1895	123 to 125	4	July 1, 1909	1,000	3,000
July 1, 1895	126 to 128	4	July 1, 1910	1,000	3,000
July 1, 1895	129 to 131	4	July 1, 1911	1,000	3,000
July 1, 1895	132 to 134	4	July 1, 1912	1,000	3,000
July 1, 1895	135 to 137	4	July 1, 1913	1,000	3,000
July 1, 1895	138 to 140	4	July 1, 1914	1,000	3,000
July 1, 1895	141 to 143	4	July 1, 1915	1,000	3,000
July 1, 1895	144 to 146	4	July 1, 1916	1,000	3,000
July 1, 1895	147 to 149	4	July 1, 1917	1,000	3,000
July 1, 1895	150 to 152	4	July 1, 1918	1,000	3,000
July 1, 1895	153 to 155	4	July 1, 1919	1,000	3,000
July 1, 1895	156 to 158	4	July 1, 1920	1,000	3,000
July 1, 1895	159 to 161	4	July 1, 1921	1,000	3,000
July 1, 1895	162 to 164	4	July 1, 1922	1,000	3,000
July 1, 1895	165 to 167	4	July 1, 1923	1,000	3,000
July 1, 1895	168 to 170	4	July 1, 1924	1,000	3,000
July 1, 1895	171 to 173	4	July 1, 1925	1,000	3,000
<i>Total amount</i>	<i>of Sewer Loan</i>	<i>Bonds</i>	<i>under above</i>	<i>Act . .</i>	\$96,000

TABLE B.

CITY LOAN PAVING BONDS.—ISSUED UNDER AUTHORITY OF
CHAPTER 153, ACTS OF 1892, BEYOND THE LIMIT
FIXED BY LAW.

DATE.	Number of Bonds.	Rate per cent of Interest.	When due.	Denomi- nation.	Amount.
October 1, 1892	21 to 25	4	Oct. 1, 1897	1,000	\$5,000
October 1, 1892	26 to 30	4	Oct. 1, 1898	1,000	5,000
October 1, 1892	31 to 35	4	Oct. 1, 1899	1,000	5,000
October 1, 1892	36 to 40	4	Oct. 1, 1900	1,000	5,000
October 1, 1892	41 to 45	4	Oct. 1, 1901	1,000	5,000
October 1, 1892	46 to 50	4	Oct. 1, 1902	1,000	5,000
October 1, 1892	51 to 55	4	Oct. 1, 1903	1,000	5,000
October 1, 1892	56 to 60	4	Oct. 1, 1904	1,000	5,000
October 1, 1892	61 to 65	4	Oct. 1, 1905	1,000	5,000
October 1, 1892	66 to 70	4	Oct. 1, 1906	1,000	5,000
October 1, 1892	71 to 75	4	Oct. 1, 1907	1,000	5,000
October 1, 1892	76 to 80	4	Oct. 1, 1908	1,000	5,000
October 1, 1892	81 to 85	4	Oct. 1, 1909	1,000	5,000
October 1, 1892	86 to 90	4	Oct. 1, 1910	1,000	5,000
October 1, 1892	91 to 95	4	Oct. 1, 1911	1,000	5,000
October 1, 1892	96 to 100	4	Oct. 1, 1912	1,000	5,000
<i>Total amount of</i>			<i>Paving Bonds</i>	. . . .	\$80,000

TABLE B.

WATER LOAN BONDS.

DATE.	Number of Bonds.	Rate per cent of Interest.	When due.	Denomination.	Amount.
July 1, 1882	138 to 151	5	July 1, 1897	1,000	\$14,000
July 1, 1888	286	4	July 1, 1897	1,000	1,000
July 1, 1896	b448	4	July 1, 1897	1,000	1,000
October 1, 1889	324 to 326	4	Oct. 1, 1897	1,000	3,000
October 1, 1890	405 to 406	4	Oct. 1, 1897	1,000	2,000
July 1, 1882	152 to 166	5	July 1, 1898	1,000	15,000
July 1, 1888	287	4	July 1, 1898	1,000	1,000
July 1, 1896	b449	4	July 1, 1898	1,000	1,000
October 1, 1889	327 to 329	4	Oct. 1, 1898	1,000	3,000
October 1, 1890	407 to 408	4	Oct. 1, 1898	1,000	2,000
July 1, 1882	167 to 181	5	July 1, 1899	1,000	15,000
July 1, 1882	182	5	July 1, 1899	500	500
July 1, 1888	288	4	July 1, 1899	1,000	1,000
July 1, 1896	b450	4	July 1, 1899	1,000	1,000
October 1, 1889	330 to 342	4	Oct. 1, 1899	1,000	13,000
October 1, 1890	409 to 410	4	Oct. 1, 1899	1,000	2,000
July 1, 1882	183 to 194	5	July 1, 1900	1,000	12,000
July 1, 1882	195	5	July 1, 1900	500	500
July 1, 1888	289	4	July 1, 1900	1,000	1,000
July 1, 1896	b451	4	July 1, 1900	1,000	1,000
October 1, 1884	200 to 202	4	Oct. 1, 1900	1,000	3,000
October 1, 1889	343 to 344	4	Oct. 1, 1900	1,000	2,000
October 1, 1890	416 to 417	4	Oct. 1, 1900	1,000	2,000
October 1, 1892	a448 to a458	4	Oct. 1, 1900	1,000	11,000
July 1, 1888	290	4	July 1, 1901	1,000	1,000
July 1, 1896	b452	4	July 1, 1901	1,000	1,000
<i>Amount carried forward . . .</i>					\$110,000

TABLE B.—WATER LOAN BONDS.—*Continued.*

DATE.	Number of Bonds.	Rate per cent. of Interest.	When due.	Denomination.	Amount.
	<i>Amount brought forward . . .</i>				\$110,000
October 1, 1884	203 to 212	4	Oct. 1, 1901	1,000	10,000
October 1, 1892	a459 to 468	4	Oct. 1, 1901	1,000	10,000
July 1, 1885	214 to 219	4	July 1, 1901	1,000	6,000
October 1, 1889	345 to 346	4	Oct. 1, 1901	1,000	2,000
October 1, 1890	418 to 419	4	Oct. 1, 1901	1,000	2,000
July 1, 1885	220 to 226	4	July 1, 1902	1,000	7,000
July 1, 1886	229 to 238	4	July 1, 1902	1,000	10,000
July 1, 1896	b453	4	July 1, 1902	1,000	1,000
October 1, 1889	347 to 348	4	Oct. 1, 1902	1,000	2,000
October 1, 1890	420 to 421	4	Oct. 1, 1902	1,000	2,000
October 1, 1892	469 to 475	4	Oct. 1, 1902	1,000	7,000
July 1, 1886	239 to 256	4	July 1, 1903	1,000	18,000
July 1, 1896	b454	4	July 1, 1903	1,000	1,000
October 1, 1889	349 to 350	4	Oct. 1, 1903	1,000	2,000
October 1, 1890	448 to 449	4	Oct. 1, 1903	1,000	2,000
July 1, 1886	257 to 266	4	July 1, 1904	1,000	10,000
July 1, 1896	b455	4	July 1, 1904	1,000	1,000
October 1, 1889	351 to 352	4	Oct. 1, 1904	1,000	2,000
October 1, 1890	450 to 451	4	Oct. 1, 1904	1,000	2,000
July 1, 1896	b456	4	July 1, 1905	1,000	1,000
October 1, 1889	353 to 355	4	Oct. 1, 1905	1,000	3,000
October 1, 1890	452 to 453	4	Oct. 1, 1905	1,000	2,000
July 1, 1876	30 to 31	5½	July 1, 1906	1,000	10,000
July 1, 1896	b457	4	July 1, 1906	1,000	1,000
October 1, 1889	356 to 358	4	Oct. 1, 1906	1,000	3,000
October 1, 1890	454 to 455	4	Oct. 1, 1906	1,000	2,000
July 1, 1886	267 to 276	4	July 1, 1907	1,000	10,000
July 1, 1888	291	4	July 1, 1907	1,000	1,000
	<i>Amount carried forward . . .</i>				\$240,000

TABLE B.—WATER LOAN BONDS.—*Continued.*

DATE.	Number of Bonds.	Rate per cent of Interest.	When due.	Denomi- nation.	Amount.
	<i>Amount brought forward . . .</i>				\$240,000
July 1, 1896	6458	4	July 1, 1907	1,000	1,000
October 1, 1889	359 to 361	4	Oct. 1, 1907	1,000	3,000
October 1, 1890	456 to 457	4	Oct. 1, 1907	1,000	2,000
July 1, 1888	292	4	July 1, 1908	1,000	1,000
July 1, 1896	6459	4	July 1, 1908	1,000	1,000
October 1, 1889	362 to 364	4	Oct. 1, 1908	1,000	3,000
October 1, 1890	458 to 459	4	Oct. 1, 1908	1,000	2,000
July 1, 1888	293	4	July 1, 1909	1,000	1,000
October 1, 1889	365 to 367	4	Oct. 1, 1909	1,000	3,000
October 1, 1890	423 to 424	4	Oct. 1, 1909	1,000	2,000
July 1, 1888	294	4	July 1, 1910	1,000	1,000
October 1, 1889	368 to 370	4	Oct. 1, 1910	1,000	3,000
October 1, 1890	426 to 427	4	Oct. 1, 1910	1,000	2,000
July 1, 1888	295	4	July 1, 1911	1,000	1,000
October 1, 1889	371 to 373	4	Oct. 1, 1911	1,000	3,000
October 1, 1890	428 to 429	4	Oct. 1, 1911	1,000	2,000
July 1, 1888	296	4	July 1, 1912	1,000	1,000
October 1, 1889	374 to 376	4	Oct. 1, 1912	1,000	3,000
October 1, 1890	430 to 431	4	Oct. 1, 1912	1,000	2,000
July 1, 1888	297	4	July 1, 1913	1,000	1,000
October 1, 1889	377 to 379	4	Oct. 1, 1913	1,000	3,000
October 1, 1890	432 to 433	4	Oct. 1, 1913	1,000	2,000
July 1, 1888	298	4	July 1, 1914	1,000	1,000
October 1, 1889	380 to 382	4	Oct. 1, 1914	1,000	3,000
October 1, 1890	434 to 435	4	Oct. 1, 1914	1,000	2,000
July 1, 1888	299	4	July 1, 1915	1,000	1,000
October 1, 1889	383 to 384	4	Oct. 1, 1915	1,000	2,000
October 1, 1890	436 to 437	4	Oct. 1, 1915	1,000	2,000
	<i>Amount carried forward . . .</i>				\$294,000

TABLE B.—WATER LOAN BONDS.—*Concluded.*

DATE.	Number of Bonds.	Rate per cent of Interest.	When due.	Denomination.	Amount.
	<i>Amount</i>	<i>brought forward . .</i>	<i>- . .</i>		\$294,000
July 1, 1888	300	4	July 1, 1916	1,000	1,000
October 1, 1889	385 to 386	4	Oct. 1, 1916	1,000	2,000
October 1, 1890	438 to 439	4	Oct. 1, 1916	1,000	2,000
July 1, 1888	301	4	July 1, 1917	1,000	1,000
October 1, 1889	387 to 388	4	Oct. 1, 1917	1,000	2,000
October 1, 1890	440 to 441	4	Oct. 1, 1917	1,000	2,000
July 1, 1888	302	4	July 1, 1918	1,000	1,000
October 1, 1889	389 to 390	4	Oct. 1, 1918	1,000	2,000
October 1, 1890	442 to 443	4	Oct. 1, 1918	1,000	2,000
October 1, 1889	391 to 392	4	Oct. 1, 1919	1,000	2,000
October 1, 1890	444 to 445	4	Oct. 1, 1918	1,000	2,000
October 1, 1890	446 to 447	4	Oct. 1, 1920	1,000	2,000
	<i>Total amount</i>	<i>of</i>	<i>Water Loan</i>	<i>Bonds</i>	\$315,000

RECAPITULATION.

City Loan Bonds	\$1,007,000.00	
Sewer Loan Bonds	33,000.00	
		<hr/>
Total amount of Funded Debt within the limit provided by law		\$1,040,000.00
Sewer Loan Bonds, issued under Chapter 357, Acts of 1895	96,000.00	
City Loan Paving Bonds, issued under Chapter 153, Acts of 1892	80,000.00	
		<hr/>
Total amount of funded Debt outside of the limit allowed by law, issued under special Acts		176,000.00
Water Loan Bonds		315,000.00
		<hr/>
Total amount of Funded Debt		<u>\$1,531,000.00</u>

TABLE C.

STATEMENT OF ACCOUNTS SHOWING APPROPRIATIONS, EXPENDITURES, ETC., TO DECEMBER 31, 1896.

APPROPRIATIONS.

	CREDIT.	
Taxes, amount assessed		\$690,100.00
Property and Debt balance		177,000.00
		<hr/>
<i>Amount carried forward</i>		\$867,100.00

Amount brought forward \$867,100.00

DEBIT.

City Hall Improvement . . .	\$22,000.00
Engineering Department . . .	10,000.00
Fire Department . . .	51,450.00
Fire Department, Fire Station, Ward One	6,500.00
Fire Department, Fire Station No. Four Improvement . . .	5,000.00
Fire Department, Land for Fire Station, Clarendon Hill, Ward Four	2,500.00
Health Department . . .	20,000.00
Highways	60,000.00
Highways, City Stables . . .	2,000.00
Highways, Steam Road Roller No. 2	3,500.00
Indigent Soldiers and Sailors . .	300.00
Interest	70,000.00
Miscellaneous	7,000.00
Police	46,000.00
Police Station Incidentals . . .	3,000.00
Printing and Stationery . . .	6,500.00
Public Grounds	7,000.00
Public Library	8,000.00
Reduction of Funded Debt . . .	95,000.00
Renewals of Funded Debt . . .	47,000.00
Relief and Burial of Indigent Sol- diers and Sailors	7,000.00
Salaries	5,700.00
School Contingent	18,000.00
School Contingent, Janitors' Sal- aries	13,000.00
School Fuel	10,000.00
Schoolhouse, English High . . .	7,000.00

Amounts carried forward . . \$533,450.00 \$867,100.00

<i>Amounts brought forward</i>	\$533,450.00	\$867,100.00
Schoolhouse, Jacob T. Glines, Addition	22,000.00	
Schoolhouse Incidentals	15,000.00	
Schoolhouse, Land, Spring Hill District	3,000.00	
Schoolhouse, Land, Ward Three	6,000.00	
Schoolhouse, Luther V. Bell, Heating, Ventilating and Sanitary Apparatus	6,500.00	
Schoolhouse, Ward One	35,000.00	
Schoolhouse, Ward Four	9,000.00	
School Teachers' Salaries	150,000.00	
Sewers, Maintenance	7,000.00	
Sidewalks	10,000.00	
Street Lights	47,000.00	
Support of Poor	17,150.00	
Watering Streets	6,000.00	
		<u>867,100.00</u>

CASH.

CREDIT.

City Hall Improvement	\$16,137.53
Engineering Department	9,456.41
County of Middlesex	43,327.63
Fire Department	60,930.75
Fire Department, Fire Alarm Signal Boxes	975.00
Fire Department, Fire Station, Ward One	13,561.15
Fire Department, Fire Station No. 4 Improvement	7,054.42
Fire Department, Land for Fire Station, Ward Four	2,464.20
Funded Debt	152,500.00
Health Department	23,320.96
Highways	68,648.95
Highways, City Stable	1,191.00
<i>Amount carried forward</i>	<u>\$399,568.00</u>

<i>Amount brought forward</i>	\$399,568.00
Highways, Paving Medford street, Somerville avenue to Cambridge line	6,820.45
Highways, Paving Washington street, Medford to Joy street	4,740.75
Highways, Paving Washington street, Joy to Tufts street	3,459.79
Highways, Steam Road Roller No. 2	3,500.00
Indigent Soldiers and Sailors	500.00
Interest	63,740.46
Miscellaneous	15,864.52
Police	55,691.62
Police Station Incidentals	2,286.86
Printing and Stationery	7,088.51
Public Grounds	6,853.22
Public Library	11,006.75
Relief and Burial of Indigent Soldiers and Sailors	7,537.91
Salaries	30,054.08
School Contingent	22,651.12
School Contingent, Janitors' Salaries	12,805.39
School Fuel	9,975.93
Schoolhouse, English High	6,843.73
Schoolhouse Incidentals	21,101.43
Schoolhouse, Jacob T. Glines Addition	27,260.71
Schoolhouse, Luther V. Bell, Heating, Ventilating and Sanitary Apparatus	6,863.26
Schoolhouse, Ward One	17,434.78
Schoolhouse, Ward Four	38,269.12
School Teachers' Salaries	140,096.72
Sewers, Construction	86,231.21
Sewers, Maintenance	8,243.16
Sidewalks	19,291.01
State Aid	8,338.00
State of Massachusetts	30,205.00
State of Massachusetts, Non-resident Bank Stock	889.35
Street Lights	47,209.55
<i>Amount carried forward</i>	<u>\$1,122,422.39</u>

<i>Amount brought forward</i>	\$1,122,422.39
Sundry Persons	905.00
Support of Poor	21,999.79
Temporary Loans	801,774.31
Water Loan Interest	13,532.50
Water Maintenance	75,328.73
Water Services	4,177.86
Watering Streets	15,593.93
Water Works Extension	16,631.83
Balance to debit in account 1897	55,333.45
	<hr/>
	\$2,127,699.79

DEBIT.

Balance from 1895	\$73,103.06
City of Boston, Water Rates	94,270.17
Engineering Department	36.34
Fire Department	682.72
Fire Department, Fire Station, Ward One	42.47
Funded Debt	177,000.00
Health Department	1,042.50
Highways	5,584.08
Highways, Paving Medford street, Somerville avenue to Cam- bridge line	242.95
Highways, Paving Washington street, Joy to Tufts street	1,000.00
Interest	9,791.12
Miscellaneous	5,010.56
Overlay and Abatement	18.41
Police	5,210.00
Police Station Incidentals	900.00
Printing and Stationery	54.00
Public Grounds	20.25
Public Library	2,896.62
Real Estate Liens	2,510.67
<i>Amounts carried forward</i>	<hr/>
	\$379,415.92
	<hr/>
	\$2,127,699.79

<i>Amounts brought forward</i>	\$379,415.92	\$2,127,699.79
Reduction of Funded Debt	7,172.46	
Salaries	22,597.57	
School Contingent	813.98	
Schoolhouse Incidentals	1,313.91	
Schoolhouse, Luther V. Bell, Heating, Ventilating and Sanitary Apparatus	12.50	
Schoolhouse, Ward One	1,437.00	
Schoolhouse, Ward Four	128.00	
Sewer Assessments	11,381.38	
Sewers, Construction	508.97	
Sewers, Maintenance	404.06	
Sidewalk Assessments	10,500.70	
State of Massachusetts, Indigent Soldiers and Sailors	324.00	
State of Massachusetts, Burial of Indigent Soldiers and Sailors	280.00	
State of Massachusetts, State Aid	7,444.50	
Street Lights	27.40	
Sundry Persons	157.71	
Support of Poor	3,346.86	
Taxes	727,603.31	
Temporary Loans	926,774.31	
Water Maintenance	10,915.71	
Water Services	112.87	
Water Service Assessments	5,781.05	
Watering Streets Assessments	8,825.54	
Watering Streets	420.08	
		<u>\$2,127,699.79</u>

CITY HALL IMPROVEMENT.

CREDIT.

Appropriations, amount appropriated by borrowing on Funded Debt account	\$22,000.00
Highways, Paving Medford street, Joy to Tufts street, amount transferred	1,340.21
<i>Amount carried forward</i>	<u>\$23,340.21</u>

<i>Amount brought forward</i>	\$23,340.21
Highways, Paving Washington street, Medford to Joy street, amount transferred	1,059.25
	<hr/>
	\$24,399.46

DEBIT.

Cash, paid Alfred H. Hines, on ac- count of contract	\$11,300.00
Alfred H. Hines, on account of extra work	425.00
Damon Safe and Iron Works Co., contract for vault	1,855.00
Foster, Ellingwood & Harvey, con- tract on account of heating ap- paratus	800.00
W. I. Mabie, carpenter work	552.70
Frank A. Fuller & Co., carpenter work	28.60
G. W. Gale Lumber Co., lumber	113.46
I. H. Brown Moulding Co., lumber	1.62
J. Rush Green, doors	28.23
Howe & Flint, boxes	31.05
Underhill Hardware Co., hardware	19.48
W. J. Fermoye, setting glass	7.50
Holland & Daniels, shades	53.20
Derby Desk Co., desks	218.40
Wemyss Bros. & Co., counters, etc.	386.70
Library Bureau, index case	55.00
Charles W. Dunham, painting	111.59
T. M. Sargent, services as architect	150.00
	<hr/>
	\$16,137.53
Balance to credit in account 1897	8,261.93
	<hr/>
	\$24,399.46

CITY OF BOSTON, WATER RATES.

CREDIT.

Cash, received of City of Boston, return on water rates	\$94,270.17
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DEBIT.

Water Maintenance, amount transferred	\$60,000.00
Water Works Extension, amount transferred	16,000.00
Water Loan Interest, amount transferred	13,612.50
Reduction of Funded Debt, amount transferred	4,657.67
	<hr/>
	94,270.17

COUNTY OF MIDDLESEX.

CREDIT.

Taxes, amount assessed	\$43,327.63
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DEBIT.

Cash, paid County tax	43,327.63
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ENGINEERING DEPARTMENT.

CREDIT.

Appropriations, amount assessed	\$10,000.00
Cash, received of Somerville Electric Light Co., given location	2.65
Schoolhouse, Ward One, superintending foundation	30.00
Arthur C. Doten, error in pay-roll	3.69
	<hr/>
	\$10,036.34

DEBIT.

Cash, paid Ernest W. Bailey, City Engineer	\$1,900.00
<i>Amounts carried forward</i>	<hr/>
	\$1,900.00
	<hr/>
	\$10,036.34

<i>Amounts brought forward</i> .	\$1,900.00	\$10,036.34
George A. Kimball, consulting Engineer	1,407.37	
Engineer's assistants	5,321.65	
Thomas Groom & Co., stationery, etc.	87.43	
Wadsworth, Howland & Co., Engineer's supplies	85.45	
Frost & Adams Co., paper	47.80	
Buff & Berger, instruments	131.05	
Stowell Bros., instruments	15.00	
Watts Bros., sliding rod	3.00	
Charles C. Hutchinson, instruments	6.00	
Morse Machine Co., tables	85.00	
Josiah Cummings, Son & Co., tool bags	6.00	
Sprague & Hathaway Co., frames	4.95	
James E. Moody, repairs to instruments	7.37	
I. H. Brown Moulding Co., stakes	21.42	
J. H. Brooks, cloth	1.70	
Blackbird Pen Co., pens	2.50	
Dame, Stoddard & Kendall, erasers	2.75	
George O. W. Servis, tape and paper	10.13	
Heliotype Printing Co., map	4.50	
M. L. Vinal, stationery	2.35	
John S. Hodgson, repairs of instruments	20.60	
Somerville Journal Co., advertising . . . . .	.25	
<i>Amounts carried forward</i> .	<u>\$9,174.27</u>	<u>\$10,036.34</u>

<i>Amounts brought forward</i>	\$9,174.27	\$10,036.34
Citizen Publishing Co., advertising . . . . .	.25	
Charles E. Farnham, expressing	1.35	
Glines & Co., expressing . . . . .	.30	
Katherine W. Wood, car fares, etc.	140.72	
Fred E. Jones, car fares, etc.	31.78	
Whitney & Snow, hardware	85.24	
F. J. Stanley, board of horse	22.50	
	<hr/>	
	\$9,456.41	
Excess and Deficiency, balance to credit of account	579.93	
	<hr/>	
		\$10,036.34

EXCESS AND DEFICIENCY.

CREDIT.		
Balance from 1895		\$1,231.33
Engineering Department, credit balance of account		579.93
Fire Department, Fire Alarm Signal Boxes, credit balance of account		25.00
Fire Department, Fire Station, No. 4 Improvement, credit balance of account		135.12
Fire Department, Land for Fire Station, Ward Four, credit balance of account		35.80
Highways, City Stable, credit balance of account		559.00
Highways, Paving Medford street, Somerville avenue to Cambridge line, credit balance of account		871.91
Indigent Soldiers and Sailors, credit balance of account		50.00
Interest, credit balance of account		3,522.97
Police Station Incidentals, credit balance of account		613.14
Public Grounds, credit balance of account		167.03
<i>Amount carried forward</i>		<hr/> \$7,791.23

<i>Amount brought forward</i>	\$7,791.23	
School Contingent, Janitors' Salaries, credit balance of account	194.61	
School Fuel, credit balance of account	24.07	
Schoolhouse, English High, credit balance of account	156.27	
Schoolhouse, Ward Four, credit balance of account	338.66	
School Teachers' Salaries, credit balance of account	9,903.28	
Sewers, Maintenance, credit balance of account	660.90	
Watering Streets, credit balance of account	728.35	
		<hr/>
		\$19,797.37

DEBIT.

Fire Department, debit balance of account	\$2,798.03	
Health Department, debit balance of account	2,278.46	
Highways, debit balance of account	965.09	
Miscellaneous, debit balance of account	761.01	
Police, debit balance of account	981.62	
Printing and Stationery, debit balance of account	534.51	
Relief and Burial of Indigent Soldiers and Sailors, debit balance of account	222.91	
Salaries, debit balance of account	1,756.51	
School Contingent, debit of account	1,037.14	
Schoolhouse Incidentals, debit balance of account	3,587.52	
Schoolhouse, Jacob T. Glines Addition, debit balance of account	760.71	
<i>Amounts carried forward</i>	\$15,683.51	<hr/>
		\$19,797.37

<i>Amounts brought forward</i>	\$15,683.51	\$19,797.37
Schoolhouse, Luther V. Bell, Heating, Ventilating and Sanitary Apparatus, debit balance of account	250.76	
Fire Department, amount transferred	1,000.00	
Street Lights, debit balance of account	182.15	
Support of Poor, debit balance of account	1,502.93	
Balance to credit in account 1897	1,178.02	
		<u>\$19,797.37</u>

FIRE DEPARTMENT.

CREDIT.

Appropriation, amount assessed	\$51,450.00
Excess and Deficiency account, amount transferred	1,000.00
Watering Streets account, amount transferred	2,000.00
Interest account, amount transferred	3,000.00
	<u>\$57,450.00</u>

Cash, received of Fire Department, Fire Alarm Signal Boxes account	\$600.00	
Jacob W. Wilbur, labor on wires	27.50	
Margaret Brown, labor on wires	5.00	
City of Cambridge, labor on wires	22.12	
Cohen & Co., old junk	20.00	
Sundry persons, money not called for	8.10	
		<u>682.72</u>
Excess and Deficiency, balance to debit of account		2,798.03
<i>Amount carried forward</i>		<u>\$60,930.75</u>

Amount brought forward . . . \$60,930.75

DEBIT.

Cash, paid to James R. Hopkins, chief engineer	\$1,800.00	
Nathaniel C. Barker, assistant engineer	600.00	
Permanent firemen and substi- tutes	24,921.27	
Steamer Company No. 1, call- men	1,263.50	
Steamer Company No. 2, call- men	706.50	
Steamer Company No. 4, call- men	1,312.00	
Hook and Ladder Company, No. 1, callmen	1,480.50	
Hook and Ladder Company, No. 2, callmen	1,607.00	
Hose Company No. 1, callmen	553.00	
Hose Company No. 2, callmen	1,392.00	
Hose Company No. 3, callmen	1,358.17	
Hose Company No. 5, callmen	1,349.00	
Sundry persons, labor on fire alarm telegraph	2,106.12	
Sundry persons, extra fire duty	102.51	
Seward Dodge, blacksmithing	382.54	
Charles L. Underhill, "	93.80	
W. H. Richardson, "	89.15	
A. Clement, "	63.35	
Cadogan Bros., "	176.05	
C. W. Ingalls, "	31.70	
Gerry & Rufer, "	154.77	
J. B. Rufer, "	36.74	
Edward O'Brien, "	77.15	
D. J. Bennett, harness work .	23.15	
<i>Amounts carried forward</i> .	<u>\$41,679.97</u>	<u>\$60,930.75</u>

<i>Amounts brought forward</i>	.	\$41,679.97	\$60,930.75
W. P. Shaw, blacksmithing	.	2.50	
H. A. Brownell, "	.	30.85	
Hill & Hill	.	14.20	
F. Ivers & Son, "	.	11.00	
E. Spalding, "	.	61.80	
Charles E. Berry, "	.	335.75	
Henry A. Glazier, harness hangers	.	32.00	
Harry L. Marston, harness hangers	.	20.50	
Gleason & Bailey Mfg. Co., horse collars	.	15.00	
G. F. & S. E. Sturtevant, hay and grain	.	59.41	
G. W. Ladd Co., hay and grain	.	64.15	
J. A. Marsh, "	.	356.54	
Proctor Bros., "	.	536.86	
R. W. Willey & Co., "	.	350.80	
Powers & Co., "	.	208.25	
Lord & Webster, "	.	913.86	
C. F. & G. W. Eddy, "	.	431.42	
Fulton O'Brien	.	12.22	
William T. Henderson, repairs of apparatus	.	49.50	
Allen & Griffin, repairs of ap- paratus	.	149.25	
David W. Crocker, repairs of apparatus	.	13.75	
Frank W. Leavitt, repairs of apparatus	.	109.50	
American Fire Engine Co., re- pairs of apparatus	.	90.91	
Charles Waugh & Co., repairs of apparatus	.	20.21	
<i>Amounts carried forward</i>	.	<u>\$45,570.20</u>	<u>\$60,930.75</u>

<i>Amounts brought forward</i> .	\$45,570.20	\$60,930.75
Crosby Steam Gage & Valve Co., repairs of apparatus .	1.75	
I. B. Walker, repairs of apparatus	49.90	
E. Teel & Co., repairs of apparatus	13.25	
Miller & Shaw, repairs of apparatus	79.14	
W. L. Snow, repairs of apparatus	1.00	
Scrannage Bros., repairs .	13.55	
W. J. Kennedy, " .	25.50	
Frank E. Fitts Mfg. and Supply Co., cotton waste, etc. .	43.55	
J. A. Druell, hardware	27.52	
Whitney & Snow, "	14.44	
Howe & Flint, "	19.38	
Underhill Hardware Co., hardware	64.93	
Joseph Breck & Sons, hardware .	5.00	
Star Brass Mfg. Co. " .	4.50	
Boston Electric Co., electrical supplies	3.37	
Charles L. Bly, electrical supplies	117.52	
New England Gamewell Co., electrical supplies	1,730.85	
Pettingill, Andrews & Co., electrical supplies	269.60	
Thomas W. Gleason, electrical supplies	57.36	
H. N. Mabie, carpentering .	204.92	
Elijah Walker, " .	23.66	
H. S. Brackett, " .	126.41	
<i>Amounts carried forward</i> .	<u>\$48,467.30</u>	<u>\$60,930.75</u>

<i>Amounts brought forward</i>	\$48,467.30	\$60,930.75
G. D. B. Robinson, "	3.39	
J. A. & W. Bird & Co., vitriol	46.43	
Corcoran Chemical Co., "	20.13	
West & Jenney, "	335.80	
James Bartley, oil, etc.	13.73	
Frank L. Young & Kimball, oil, etc.	4.25	
William P. Sawyer, oil, etc.	7.95	
H. W. Burgess, "	15.10	
J. H. Givan, "	1.84	
W. H. Bullard, "	29.45	
A. F. Carpenter, "	7.85	
W. Irving Heald, "	15.58	
John P. Squire & Co. Corp., oil, etc.	47.76	
J. E. Phipps, grease	8.40	
Standard Oil Dressing Co., dressing	3.00	
Charles A. Austin & Co., brushes	15.60	
Collins & Richards, stall basins	18.00	
John L. Clark, canvas covers	23.75	
Thomas Groom & Co., sta- tionery	18.00	
F. W. Barry, Beale & Co., sta- tionery	6.20	
Plummer Mfg. Co., chamois skins	10.25	
W. H. Churchill & Co., re- pairs of fire alarm	.50	
Thomas H. Daley, box	3.00	
N. T. Barker, repairing	1.70	
F. E. Cushing, glazing	.85	
Norfolk Mfg. Co., powder	10.35	
Welch & Hall, horses	485.00	
<i>Amounts carried forward</i>	\$49,621.16	\$60,930.75

<i>Amounts brought forward</i> .	\$49,621.16	\$60,930.75
Edgar Snow, " . . .	435.00	
Moses Coleman & Son, horse .	150.00	
George E. Lowell, use of horse	7.00	
W. N. Hubbard, " . . .	10.00	
William Kirkland, " . . .	11.00	
Revere Rubber Co., hose . . .	58.50	
Boston Belting Co., " . . .	910.00	
Boston Woven Hose & Rubber Co., hose	187.43	
Henry W. Ross, nozzle	12.00	
A. S. Jackson, couplings, etc. .	63.00	
Combination Ladder Co., land- ing pads, etc.	33.00	
Cornelius Callahan Co., hose .	157.00	
W. S. Fifield & Son, stove work	4.00	
Charles A. Holmes, "	11.40	
Christian & Co., grates	48.00	
Allen Bros., steel letters . . .	3.00	
A. W. Mitchell Mfg. Co., badges	22.75	
Oak Hall Clothing Co., badge . .	1.00	
Scovill Mfg. Co., buttons	17.82	
S. F. Hayward & Co., charging extinguishers	9.00	
Elias Lathrop, ointment	8.00	
P. Casseau, painting	75.00	
Francis S. Brown, tarine	5.00	
R. H. Mead, soap	6.00	
T. Spelman, soap	14.00	
Sawyer & Read, soap	3.50	
I. Wiley & Co., sponges	41.97	
Somerville Electric Light Co., lighting	34.32	
Charlestown Gas & Electric Co., gas	208.40	
Cambridge Gaslight Co., gas . .	801.38	
<i>Amounts carried forward</i> .	\$52,969.63	\$60,930.75

<i>Amounts brought forward</i> .	\$52,969.63	\$60,930.75
New Eng. Telephone & Telegraph Co., rentals and tolls .	244.35	
City of Boston, water for hydrants	4,172.00	
City of Boston, water for houses	205.47	
George F. Hughes, painting .	6.00	
G. S. Burton, painting . . .	15.00	
J. Q. Twombly, painting . . .	26.72	
S. D. Hicks & Son, copper work	21.95	
James F. Davlin, plumbing .	33.76	
John A. Merrifield, plumbing .	2.00	
George H. Maynard, plumbing	1.50	
J. E. Parsons, plumbing . . .	1.33	
W. E. Plumber & Co., hardware	46.83	
I. L. Smith, fuel	395.95	
Horatio Wellington & Co., fuel	203.99	
B. F. Wild & Co., fuel	449.59	
A. M. Prescott, harness work .	94.00	
American Tube Works, iron rail . . . . .	.75	
William McDonald, signs .	32.50	
The Gutta Percha & Rubber Co., hose	58.50	
W. F. Barker, steam fitting .	46.35	
A. A. Sanborn, steam fitting .	86.75	
Braman, Dow & Co., steam fitting	8.31	
E. D. Loring, steam fitting .	5.50	
Fairbanks Co., scales	6.00	
W. J. Logan, setting glass .	15.00	
C. M. Kimball, polish	11.50	
John G. Lesure, medicine .	24.00	
George E. Downes, salt	4.50	
<i>Amounts carried forward</i> .	<u>\$59,189.73</u>	<u>\$60,930.75</u>

<i>Amounts brought forward</i>	\$59,189.73	\$60,930.75
Hiram N. Stearns, bedding	62.28	
G. W. Bent & Co., bedding	7.50	
J. H. Brooks, dry goods	1.00	
Jackson, Caldwell & Co., mat	1.00	
W. G. Hallock, dusters	34.25	
Leander Barber, brooms	11.00	
W. A. Greenough, directory	2.00	
Silas D. Carter, refreshments	15.00	
S. J. Wood, filing saws, etc.	2.00	
Henry K. Barnes, spanners	4.00	
W. G. Langdon, clock	4.25	
Daniel Pratt Sons, dial	1.00	
F. C. Ayer, lumber	11.90	
I. H. Brown Moulding Co., lumber	10.53	
Clarence G. Reed, whitewash- ing	28.75	
Harry F. Bucknam, plastering	2.50	
John T. Sellon, glass	10.00	
E. P. Miers, agent, roofing	10.35	
T. Allen, concreting	56.00	
Dennis Ryan, grinding	15.00	
William C. Pierce, electric hose pulls	15.00	
C. N. Perkins & Co., repairing extinguishers	14.00	
Hayward Bros. & Co., furniture	20.25	
M. W. Cain & Son, furniture	35.00	
Kendall & Baker, bedding	68.33	
Chandler & Farquhar, tools	18.30	
Sulpho Naphthol Co., naphthol	20.00	
H. D. Padelford, drugs	7.95	
Milton H. Plummer, drugs	3.55	
George E. Grover, drugs	1.75	
Useful Novelty Co., salt bricks	7.20	
<i>Amounts carried forward</i>	\$59,691.37	\$60,930.75

<i>Amounts brought forward</i>	\$59,691.37	\$60,930.75
Somerville Citizen Co., printing	21.50	
Citizen Publishing Co., printing	4.50	
Ame & Co., horse food	6.50	
Sidewalk assessments, sidewalk on Hudson street	15.50	
Highways account, paving driveway	213.56	
G. R. Tuttle, lumber	1.19	
J. E. Kelsey, teaming	8.00	
W. E. Loveless, teaming	2.00	
William Green, teaming	2.00	
Eugene Mead, carriage hire	12.00	
M. G. Staples, teaming	12.25	
George T. Day, expressing	54.33	
Glines & Co., expressing	4.25	
E. R. Perham, expressing	3.30	
Charles E. Farnham, express- ing	18.60	
Fitz, Dana & Co., wire	45.97	
Meyers Putz Pomade Co., cream	3.00	
F. D. Weld, ladders, etc.	43.90	
J. H. Thompson, hack hire	8.00	
Mrs. Walter Loveland, washing	46.61	
Irving C. Jackson, washing	31.63	
Mrs. E. F. Trefren, washing	33.50	
Mrs. A. M. Spike, washing	42.60	
Mrs. Calvert, washing	130.40	
W. H. Stevens, washing	46.49	
Harry Hunt, repairing hose	9.25	
Charles R. Simpson, veterinary services	117.00	
Winter Hill Ice Co., ice	6.00	
Boston Ice Co., ice	6.00	
Frank A. Teele, premium of in- surance	8.00	
<i>Amounts carried forward</i>	\$60,649.20	\$60,930.75

<i>Amounts brought forward</i>	\$60,649.20	\$60,930.75
Willard C. Hill, premium of insurance	85.00	
Charles S. Robertson, premium of insurance	135.00	
Edward E. Saben, premium of insurance	45.00	
Joseph J. Giles, premium of insurance	13.00	
James R. Hopkins, paid for freight	1.25	
Edward Backus, car fares	2.30	
	<hr/>	60,930.75
		<hr/>

FIRE DEPARTMENT, FIRE ALARM SIGNAL BOXES.

CREDIT.

Fire Department, Fire Station, Ward One, amount transferred	\$1,000.00
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DEBIT.

Cash, paid New England Gamewell Co., signal boxes	\$375.00
Fire Department account, signal boxes	600.00
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	\$975.00
Excess and Deficiency, balance to credit of account	25.00
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	1,000.00
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FIRE DEPARTMENT, FIRE STATION, WARD ONE.

CREDIT.

Balance from 1895	\$9,208.22
Appropriations, amount appropriated by borrowing on Funded Debt account	6,500.00
Cash, received of Lord Bros., for heating	42.47
	<hr/>
<i>Amount carried forward,</i>	\$15,750.69

Amount brought forward \$15,750.69

DEBIT.

Cash, paid Lord Bros., on account of contract	\$8,745.00	
Lord Bros., extras	856.25	
Charles W. Christian & Co., heating apparatus	930.00	
T. M. Sargent, services as architect	434.49	
Asbestos Paper Co., plastering	55.00	
Collins & Richards, iron columns	60.00	
Gould Bros., carpenter work	366.19	
Frank E. Cutter, painting	35.29	
Armstrong Bros., tin work	29.00	
George H. Maynard, plumbing	96.00	
William Campbell & Co., boiler	125.00	
S. & R. J. Lombard, edgestones	117.39	
W. A. Murtfeldt, concreting	175.00	
Murdock Parlor Grate Co., tablets	55.25	
G. W. & F. Smith & Co., iron ladder	18.00	
McKenney & Waterbury, gas fixtures	117.25	
Wilfred Young, zinc work	15.00	
Charles E. Berry, harness work	182.00	
Combination Ladder Co., landing pads	30.00	
M. W. Cain & Co., furniture	47.00	
Conant, Ball & Co., furniture	26.00	
French & Heald, furniture	102.00	
Boston Electric Co., electric work	80.00	
J. A. Glass & Co., shades	38.00	
<i>Amounts carried forward</i>	<u>\$12,735.11</u>	<u>\$15,750.69</u>

<i>Amounts brought forward</i>	\$12,735.11	\$15,750.69
Fries, Breslin & Co., rugs	27.36	
James A. Furley, mats	4.72	
Kendall & Baker, bedding, etc.	149.96	
Hiram N. Stearns, bedding, etc.	59.70	
Welch & Hall, horses	405.00	
Gleason & Bailey Mfg. Co., collars	45.00	
Charles A. Holmes, labor	5.00	
Charles Mains, labor	29.00	
T. H. Young, labor	12.60	
A. M. Prescott, teaming	81.05	
W. E. Loveless, teaming	6.65	
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	\$13,561.15	
Fire Department, Fire Alarm Signal Boxes, amount transferred	1,000.00	
Fire Department, Fire Station, No. 4 Improvement, amount trans- ferred	1,189.54	
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		15,750.69
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FIRE DEPARTMENT, FIRE STATION NO. 4, IMPROVE-
MENT.

CREDIT.

Appropriations, amount appropriated by borrow- ing on Funded Debt account	\$5,000.00
Fire Department, Fire Station No. 1, amount transferred	1,189.54
Schoolhouse, Ward Four, account, amount trans- ferred	1,000.00
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<i>Amount carried forward</i>	\$7,189.54

Amount brought forward \$7,189.54

DEBIT.

Cash, paid Lord Bros., on account of contract	\$5,100.00	
Lord Bros., extras	432.12	
D. B. Franklin, heating apparatus	172.00	
W. A. Snow & Co., stall floors	84.00	
W. F. Barker, fittings, pipe, etc.	45.55	
Webster, Folger & Co., shades	22.00	
Starbird & Johnson, shed	191.19	
Bowker, Torrey & Co., tablet	22.60	
Boston Electric Co., electrical work	45.00	
Collins & Richards, sliding poles	25.63	
E. R. & E. H. Tarbell, gas fixtures	94.80	
Charles E. Berry, hangers	215.24	
George W. Tibbetts, plumbing	80.40	
Cambridge Gaslight Co., pipe	2.19	
J. Harrington & Son, roofing	130.70	
Loring & Phipps, services as architects	391.00	
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	\$7,054.42	
Excess and Deficiency, balance to credit of account	135.12	
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		<u><u>\$7,189.54</u></u>

FIRE DEPARTMENT, LAND FOR FIRE STATION, CLARENDON HILL, WARD FOUR.

CREDIT.

Appropriations, amount appropriated by borrowing on funded debt account	\$2,500.00
<i>Amount carried forward</i>	<u>\$2,500.00</u>

Amount brought forward \$2,500.00

DEBIT.

Cash, paid Henry Holton, Eugene H. Ferry, and Henry Hol- ton, Gdn.	\$2,433.93	
City of Somerville, taxes of 1896	30.27	
	<hr/>	
	\$2,464.20	
Excess and Deficiency, balance to credit of account	35.80	
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		<u>2,500.00</u>

FUNDED DEBT ACCOUNT.

CREDIT.

Balance from 1895	\$1,506,500.00	
Cash, received from sale of City Loan Bonds Nos. 2058 to 2222	\$165,000.00	
Water Loan Bonds Nos. 448 to 459	12,000.00	
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		177,000.00
		<hr/>
		\$1,683,500.00

DEBIT.

Cash, paid sundry persons		
City Loan Bonds Nos. 1,254 to 1,263	10,000.00	
City Loan Bonds Nos. 1,593 to 1,601	9,000.00	
City Loan Bonds Nos. 1,734 to 1,752	19,000.00	
City Loan Bonds Nos. 944 to 948	5,000.00	
City Loan Bonds Nos. 1,053 to 1,062	10,000.00	
	<hr/>	
<i>Amounts carried forward</i>	\$53,000.00	<u>\$1,683,500.00</u>

<i>Amounts brought forward</i>	\$53,000.00	\$1,683,500.00
City Loan Bonds Nos. 1,123 to 1,126	4,000.00	
City Loan Bonds Nos. 1,175 to 1,181	7,000.00	
City Loan Bonds Nos. 1,373 to 1,396	24,000.00	
Sewer Loan Bonds Nos. 1 to 7	35,000.00	
Sewer Loan Bond No. 55	1,000.00	
Sewer Loan Bond No. 38	1,000.00	
Sewer Loan Bonds Nos. 74 to 77	4,000.00	
City Loan Paving Bonds Nos. 16 to 20	5,000.00	
Water Loan Bonds Nos. 125 to 136	12,000.00	
Water Loan Bond No. 137	500.00	
Water Loan Bond No. 285	1,000.00	
Water Loan Bonds Nos. 321 to 323	3,000.00	
Water Loan Bonds Nos. 403 to 404	2,000.00	
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	\$152,500.00	
Balance to credit in account 1897	1,531,000.00	
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		1,683,500.00

HEALTH DEPARTMENT.

CREDIT.

Appropriations, amount assessed	\$20,000.00
Cash, received of Hannibal S. Pond, garbage	800.00
George W. Bean, poundage of dogs	174.00
Daniel P. O'Brien, poundage of dogs	3.00
William P. Mitchell, permits to keep swine and goats and collect grease	61.00
Somerville Hospital, sulpho naphthol	4.50
	<hr/>
	\$21,042.50
Excess and Deficiency, balance to debit of account	2,278.46
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<i>Amount carried forward</i>	\$23,320.96

Amount brought forward \$23,320.96

DEBIT.

Cash, paid laborers	\$16,660.00	
Caleb A. Page, salary as Inspector	1,200.00	
Disbursements	111.31	
George W. S. Huse, salary as Superintendent	900.00	
P. F. McDonald, carts	474.00	
Charles L. Underhill, repairs of carts	113.10	
Seward Dodge, repairs of carts	2.10	
F. W. Esterbrook, repair of carts	1.25	
E. Teel & Co., repairs of buggy	21.25	
L. A. Wright, repairs of pails	7.00	
Edward O'Brien, horse-shoeing	231.51	
Ira L. Roberts, horse-shoeing	123.15	
Gerry & Rufer, horse-shoeing	1.00	
W. H. Richardson, horse-shoeing . . . .	.25	
Hill & Hill, ash-cart covers	13.50	
D. J. Bennett, harness work	147.35	
Welch & Hall, exchanging horse	51.24	
J. H. Thompson, carriage hire	6.00	
L. H. Brown, carriage hire	7.00	
Proctor Bros., hay and grain	2,467.20	
City of Boston, water	28.00	
Somerville Electric Light Co., lighting	72.99	
H. Wellington & Co., fuel	25.23	
J. A. Porter & Co., fuel	6.30	
Thomas Groom & Co., stationery	10.25	
Sundry Persons, burying animals	1.65	
<i>Amounts carried forward</i>	\$22,682.63	\$23,320.96

<i>Amounts brought forward</i>	\$22,682.63	\$23,320.96
J. A. Durell, hardware	68.97	
Howe & Flint, hardware	8.35	
Whitney & Snow, hardware	15.07	
Burdett & Williams, dog chains	10.92	
J. P. Lovell Arms Co., collars	1.59	
A. C. Ferguson, bread	6.75	
S. B. Blethen, bread	1.50	
G. Benjamin Frost, meat	18.96	
John E. Taapken, groceries	6.93	
M. C. Parkhurst, fitting dog pound	17.00	
G. W. Manning, labor	20.00	
I. H. Brown Moulding Co., saw dust	2.00	
F. A. Higgins, dishes	1.40	
Osgood & Stevens, carpenter- ing	12.99	
Alley & Littlefield, lumber	2.16	
John Fisher, buckets	10.80	
Charles M. Berry, fumigating, etc.	21.70	
W. F. Waller, fumigating, etc.	10.00	
James Bartley, supplies	3.11	
R. M. Sturtevant, supplies	7.29	
Mrs. N. L. Perry, nursing	84.00	
Somerville Journal Co., print- ing and advertising	89.50	
Somerville Citizen Co., printing and advertising	2.25	
Citizen Publishing Co., printing and advertising	48.50	
New England Vaccine Co., virus	26.65	
West & Jenney, sulphur	9.49	
<i>Amounts carried forward</i>	\$23,190.51	\$23,320.96

<i>Amounts brought forward</i> .	\$23,190.51	\$23,320.96
Milton H. Plummer, pepper- mint	13.35	
J. W. Coveney, post office box .	4.00	
J. H. Brooks, dry goods .	5.60	
C. H. Paine, horse medicine .	2.00	
W. H. Way, veterinary services	40.00	
Fred S. Brown, polish	2.00	
M. P. Mongan, force pump .	2.00	
Charles S. Robertson, premium of insurance	50.00	
Charles E. Farnham, expressing	1.00	
Glines & Co., expressing .	.55	
E. R. Perham, expressing .	1.25	
C. H. Crane, expressing . .	7.50	
Marshall St. Pharmacy . .	1.20	
	<hr/>	23,320.96
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HIGHWAYS.

CREDIT.

Appropriations, amount assessed	\$60,000.00
Highways, City Stable, amount transferred . .	250.00
Interest, amount transferred	1,500.00
Sidewalks, amount transferred	349.78
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	\$62,099.78

Cash, received of James H. Piper, sidewalk	43.61	
Henry C. Smalley, sidewalk .	40.82	
John P. Snow, sidewalk . .	22.24	
Walter A. Eames, sidewalk .	22.24	
Rufus R. Wade, sidewalk .	31.25	
Blaney & Robinson, sidewalk .	148.57	
L. P. Carr, sidewalk	25.11	
James Tucker, sidewalk . .	39.57	
	<hr/>	
<i>Amounts carried forward</i> .	\$373.41	\$62,099.78

<i>Amounts brought forward</i>	\$373.41	\$62,099.78
Herman Barker, sidewalk	66.60	
Harry M. Moore, sidewalk	19.60	
William H. Zinn, sidewalk	147.20	
Ella Haskell, sidewalk	46.43	
George W. Foskett, sidewalk	30.27	
John E. Woodside sidewalk	21.00	
James W. Rich, sidewalk	45.00	
Joseph J. Stockdon, sidewalk	39.74	
George O. W. Servis, sidewalk	14.82	
New Eng. Mutual Life Ins. Co., sidewalk	172.61	
S. H. Maloon, sidewalk	40.32	
Henry B. Champion, sidewalk	40.25	
C. W. Lowell, sidewalk	54.52	
William M. Young, sidewalk	71.38	
Josiah C. Fluker, sidewalk	42.31	
R. K. Wakefield, sidewalk	42.32	
J. F. Merry, sidewalk	16.77	
Wilson G. Rich, sidewalk	47.18	
Elijah A. Trickey, sidewalk	42.46	
Sophronia M. Tower et al., sidewalk	61.16	
A. H. Carvill, sidewalk	112.50	
James H. Steele, sidewalk	48.03	
Fred W. Coles, sidewalk	24.75	
Thomas A. Dewire, sidewalk	97.50	
Geo. A. Maynard, sidewalk	58.30	
J. L. Nelson, sidewalk	100.31	
Lottie Landon, sidewalk	9.65	
George A. Bruce, sidewalk	22.25	
Robert Duddy, sidewalk	21.80	
William B. Parazina, sidewalk	25.91	
George I. Vincent, sidewalk	4.85	
J. F. Berry, sidewalk	29.15	
A. E. & N. J. Giroux, drive- way	5.00	
<i>Amounts carried forward</i>	\$1,995.35	\$62,099.78

<i>Amounts brought forward</i>	\$1,995.35	\$62,099.78
Frank D. Woodbridge, driveway	7.65	
Albert M. Davis, driveway	8.20	
J. L. Gilman, driveway	9.75	
Martin J. Caples, driveway	4.50	
Alden E. Viles, driveway	17.00	
John P. Squire Co., Corp., driveway	34.40	
Howard Lowell, driveway	15.64	
T. H. Edgerly, driveway	5.25	
Emery F. Chaffee, bricks	1.48	
Benjamin F. Freeman, crushed stone	2.50	
A. C. Aldrich, crushed stone	5.00	
W. S. Glidden, crushed stone	5.00	
Broadway M. E. Church, filling	30.00	
Thomas Allen, use of roller	15.00	
Mass. Broken Stone Co., old crusher	150.00	
T. A. Hammond, old engine	50.00	
Thomas Ormund, rent	72.00	
Arthur Murley, rent	64.00	
Irving L. Russell, manure	31.00	
Highways, City Stable, labor	40.00	
Schoolhouse Incidentals, labor, etc.	263.30	
Public Grounds, removing driveway	125.89	
Sewers Construction, teaming	28.80	
Sidewalks, teaming, materials, etc.	1,700.96	
Schoolhouse, Ward Four, edge-stones	661.85	
Fire Department, paving	213.56	
B. Martis, error in pay roll	6.00	
<i>Amounts carried forward</i>	\$5,564.08	\$62,099.78

<i>Amounts brought forward</i> .	\$5,564.08	\$62,099.78
William Cunningham, money not called for	15.00	
John McGlaughlin, money not called for	5.00	
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	\$5,584.08	
Excess and Deficiency, balance to debit of account . . .	965.09	
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		\$68,648.95

DEBIT.

Cash, paid laborers' pay rolls . .	\$39,400.92	
Thomas H. Eames, salary as Superintendent	77.40	
Thomas H. Eames, board of horses	20.57	
John P. Prichard, salary as Su- perintendent	1,443.99	
John P. Prichard, disburse- ments	41.51	
Nathan Tufts & Sons, grain . .	1,819.06	
G. W. Ladd Co., grain	290.85	
R. W. Willey & Co., grain . .	56.70	
Lord & Webster, hay and straw .	1,653.54	
G. F. & S. E. Sturtevant, hay .	522.03	
P. F. Merrill, hay	205.22	
F. Dooris, blacksmithing . .	51.95	
Collins & McKenna, black- smithing	80.13	
Seward Dodge, blacksmithing .	168.17	
Charles L. Underhill, black- smithing	11.22	
Miller & Shaw, blacksmithing .	96.56	
A. Clement, blacksmithing . .	105.27	
Edward O'Brien, blacksmithing	327.22	
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<i>Amounts carried forward</i> .	\$46,372.31	\$68,848.95

<i>Amounts brought forward</i> .	\$46,372.31	\$68,648.95
Geo. McDormand, blacksmithing	167.17	
E. E. Olney & Co., blacksmithing	7.75	
Harry G. Hunt & Co., blacksmithing	26.20	
Taylor Iron & Steel Co., jaws .	129.10	
Holmes & Blanchard, repairs to crusher	271.63	
S. C. Nightingale & Child, repairs of crusher	39.30	
Roberts Iron Works Co., plates	20.78	
Walworth Mfg. Co., steam fitting	96.47	
W. R. Fleming & Co., repairs of roller	72.82	
Allen & Griffin, repairs of roller	27.90	
American Road Machine Co., repairs	10.00	
Lubron Mfg. Co., packing .	9.00	
O. S. Kelley & Co., grease .	2.50	
Leonard & Ellis, grease .	23.03	
American Oil Co., oil . .	37.40	
P. Sutherland & Co., oil . .	143.96	
S. D. Hicks & Son, repairing carts	7.77	
D. W. Crocker, repairing carts	15.35	
Union Square Carriage Co., repairs	11.50	
S. J. Wood, repairing tools, etc.	7.25	
Frank W. Bickford, repairing tools, etc.	4.04	
A. M. Prescott, harness work	18.45	
John Cutter, harness work .	83.85	
<i>Amounts carried forward</i> .	<u>\$47,605.53</u>	<u>\$68,648.95</u>

<i>Amounts brought forward</i> .	\$47,605.53	\$68,648.95
D. J. Bennett, harness work .	42.45	
John S. Williams, harness work .	331.12	
H. A. Brownell, harness work .	34.60	
Welch & Hall, horses . . .	690.00	
Frank O. Chandler, horses .	300.00	
Walter Bates & Sons, horse .	75.00	
R. M. Sturtevant, horses, etc. .	426.00	
J. C. Terry, mason work .	133.25	
Boston & Maine R. R., freight	70.04	
Chesapeake & Ohio Coal		
Agency Co., coal	178.51	
H. Wellington & Co., fuel .	115.98	
T. H. Sprague & Son, fuel .	396.94	
W. M. Hadley, fuel	171.37	
Frank A. Teel, fuel	134.49	
Highland Coal Co., fuel . . .	3.20	
Baker, Hunnewell & Co., fuel	6.80	
City of Boston, water	129.10	
C. A. Hammond, engine and		
feed pump, etc.	843.58	
Union Snow Plough & Wagon		
Co., snow plough	65.00	
William C. Oastler, road scraper	360.00	
Hickory Broom Fibre Co.,		
brooms	21.56	
A. J. Wellington, screen .	50.00	
Somerville Electric Light Co.,		
lighting	164.99	
Charlestown Gas & Electric		
Co., tar	3.00	
New Eng. Tel. & Tel. Co., rent-		
als and tolls	76.31	
George H. Sampson, powder .	25.30	
Useful Novelty Co., salt bricks .	33.60	
John Kaine, soda	27.83	
<i>Amounts carried forward</i> .	<u>\$52,515.55</u>	<u>\$68,648.95</u>

<i>Amounts brought forward</i>	\$52,515.55	\$68,648.95
F. J. Stanley, clipping horse	2.00	
Frank W. Bickford, setting glass	15.63	
Boston Belting Co., belting	16.26	
Crosby Steam Gage & Valve Co., gage	2.50	
Ashton Valve Co., valve	6.00	
L. M. Ham & Co., iron beams	32.08	
William G. Nash, cement	11.40	
Thomas Groom & Co., station- ery	69.25	
A. E. Jacobs, ink pads	3.00	
A. M. Wood & Co., lumber	99.68	
S. W. Fuller, lumber	34.36	
F. C. Ayer, lumber	129.93	
Alley & Littlefield, lumber	44.81	
Wemyss Bros. & Co., cedar posts	16.50	
Perrin, Seamans & Co., tools	8.67	
Underhill Hardware Co., tools	3.00	
A. J. Wilkinson & Co., tools	14.82	
Whitney & Snow, tools	181.70	
Chase, Parker & Co., tools	60.28	
J. A. Martin, tools	3.25	
Dodge, Haley & Co., tools	14.32	
James McCusker, tools	6.00	
Portland Stoneware Co., bricks	15.55	
W. A. Sanborn, bricks	1,239.65	
N. M. Cofran & Co., bricks	97.50	
Dennis Shea, stone	1,710.40	
J. M. Riley, stone	119.10	
C. F. Shean, stone	206.02	
A. Kennedy, stone	58.59	
John Wilson, stone	292.02	
<i>Amounts carried forward</i>	\$57,029.82	\$68,648.95

<i>Amounts brought forward</i>	\$57,029.82	\$68,648.95
Owen Cunningham & Sons, stone	221.31	
Frank Buttimer, stone	491.32	
H. A. Hanscom & Co., stone	1,347.60	
John Turner & Co., stone	1,127.11	
William H. Lenox, stone	116.70	
William J. McCarthy, stone	166.95	
G. W. Holmes, stone	50.67	
Sweatt & Gould, stone	21.63	
W. B. Parker, stone	57.90	
Lennon & O'Brien, stone	5.40	
Christopher Burke, stone and teaming	167.34	
Richard Falvey, stone and team- ing	82.77	
P. Connors, teaming	350.13	
Margaret A. Simpson, sand	816.50	
M. W. Carr & Co., sand	65.00	
T. C. Connor, sand	75.50	
A. C. Spring, gravel	31.00	
S. & R. J. Lombard, edgestones	2,526.50	
W. E. Plumer & Co., hardware	71.92	
W. I. Heald, hardware	52.73	
W. B. Holmes, hardware	24.93	
W. L. Snow, hardware	19.54	
Ames Plow Co., tools	222.32	
Remick Bros., blankets	1.74	
Pettingill, Andrews & Co., elec- trical supplies	6.25	
Boston Bolt Co., bolts	5.22	
W. P. Phillips & Co., washers	5.84	
W. H. Way, veterinary services	23.00	
William H. Hitchings, veter- inary services	174.00	
<i>Amounts carried forward</i>	\$65,358.64	\$68,648.95

<i>Amounts brought forward</i> .	\$65,358.64	\$68,648.95
Somerville Journal Co., printing	96.65	
Citizen Publishing Co., printing	21.00	
Somerville Citizen Co., printing	49.75	
Thomas Hollis, drugs	11.85	
Lombard & Bowman, drugs	36.46	
T. H. Paine, drugs	6.00	
Thomas Casey, bricks	8.00	
Charles Drouet, bricks	120.00	
N. E. Fitz & Co., wharfage	88.40	
H. Gore & Co., paving	192.20	
City of Medford, one half cost of maintaining Middlesex Avenue bridge	647.95	
A. W. Hastings & Co., sashes	13.60	
American Stave & Cooperage Co., tank	20.00	
J. A. Durell, plumbing	20.79	
George C. Downes, salt	3.00	
Henry K. Barnes, lacing	3.00	
L. A. Wright, wheelwright work	3.20	
American Steam Packing Co., packing	9.90	
Thomas Allen, concreting	45.00	
James Rawson, painting	60.52	
T. A. Sallaway, paint	4.77	
C. Caseau, signs	4.00	
E. R. Perham, expressing	10.45	
Glines & Co., expressing . . . . .	.45	
City of Waltham, taxes	484.21	
Town of Wakefield, taxes	14.00	
F. J. Hamblin, premium of in- surance	50.00	
<i>Amounts carried forward</i> .	\$67,383.79	\$68,648.95

<i>Amounts brought forward,</i> . . .	\$67,383.79	\$68,648.95
German Ins. Co., premium of insurance	40.00	
C. S. Robertson, premium of insurance	28.00	
Downey Heirs, compensation for damages	300.00	
Albert D. S. Bell, Trustee, compensation for damages	400.00	
John Edwards, compensation for damages	75.00	
Sewers Construction, edge-stones	2.54	
Water Maintenance, couplings	2.55	
Schoolhouse, Ward Four, sand	85.00	
Sewer Assessments	168.03	
Eugene Mead, boarding horse	160.94	
William Campbell, repairing boiler	3.10	
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		\$68,648.95

HIGHWAYS, CITY STABLES.

CREDIT.

Appropriations, amount appropriated by borrowing on Funded Debt account	\$2,000.00
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DEBIT.

Cash, paid S. W. Fuller lumber	\$532.42	
J. Pleadwell, lumber	267.45	
E. R. Tuttle, carpenter work	227.02	
James Rawson, painting	55.52	
E. Horn, mason work	28.60	
J. A. Durell, conductors	18.46	
Whitney & Snow, hardware	21.53	
Highways, labor	40.00	
	<hr/>	<hr/>
<i>Amounts carried forward</i>	\$1,191.00	\$2,000.00

<i>Amounts brought forward</i>	\$1,191.00	\$2,000.00
Highways, amount transferred	250.00	
Excess and Deficiency, balance to credit of account	559.00	
	<hr/>	<hr/>
		\$2,000.00

HIGHWAYS, PAVING MEDFORD STREET, SOMERVILLE AVENUE TO CAMBRIDGE LINE.

CREDIT.

Balance from 1895	\$13,249.41
Cash, received of City of Cambridge, lowering manholes, etc.	242.95
	<hr/>
	\$13,492.36

DEBIT.

Cash, paid Pigeon Hill Granite Co., paving blocks	\$1,940.06	
H. Gore & Co., contract for paving	3,623.52	
H. Gore & Co., extras	123.49	
William H. Gore & Co., contract for paving	957.99	
S. & R. J. Lombard, flagging stone	92.64	
Laborers' pay rolls	82.75	
	<hr/>	
	\$6,820.45	
Highways, Paving Washington street, Medford, to Joy street, amount transferred	5,800.00	
Excess and Deficiency, balance to credit of account	871.91	
	<hr/>	<hr/>
		\$13,492.36

HIGHWAYS, PAVING WASHINGTON STREET, MEDFORD TO JOY STREET.

CREDIT.

Highways, paving Washington street, Medford street to Cambridge line, amount transferred	\$5,800.00
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DEBIT.

Cash, paid Pigeon Hill Granite Co., paving blocks	\$2,512.56	
H. Gore & Co., contract for paving	2,124.93	
S. & R. J. Lombard, flagging stone	29.76	
Laborers' pay roll	73.50	
	<hr/>	
	\$4,740.75	
City Hall Improvement, amount transferred	1,059.25	
	<hr/>	
		5,800.00

HIGHWAYS, PAVING WASHINGTON STREET, JOY TO TUFTS STREET.

CREDIT.

Balance from 1895	\$3,800.00
Cash, received of West End Street Railway Co., contribution	1,000.00
	<hr/>
	\$4,800.00

DEBIT.

Cash, paid Pigeon Hill Granite Co., paving blocks	\$1,536.17	
William H. Gore & Co., contract for paving	1,398.03	
William H. Gore, labor and teams	28.88	
H. Gore & Co., contract for paving	390.40	
	<hr/>	
<i>Amounts carried forward</i>	\$3,353.48	\$4,800.00

<i>Amounts brought forward</i>	\$3,353.48	\$4,800.00
S. & R. J. Lombard, flagging stone	69.88	
Laborers' pay rolls	6.38	
Water Maintenance, pipe and labor	11.25	
Sewers Maintenance, recon- structing catch basins and drains	15.00	
W. G. Nash, cement	3.80	
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	\$3,459.79	
City Hall Improvement, amount transferred	1,340.21	
	<hr/>	
		4,800.00

HIGHWAYS, STEAM ROAD ROLLER, NO. 2.

CREDIT.

Appropriations, amount appropriated by borrow- ing on Funded Debt account	\$3,500.00
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DEBIT.

Cash, paid The O. S. Kelley Co., steam road roller	3,500.00
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INDIGENT SOLDIERS AND SAILORS.

CREDIT.

Appropriations, amount assessed	\$300.00
State of Massachusetts, Indigent Soldiers and Sailors	250.00
	<hr/>
	\$550.00

DEBIT.

Cash, paid sundry persons as per pay rolls	\$500.00
Excess and Deficiency, balance to credit of account	50.00
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	550.00

INTEREST.

CREDIT.

Appropriations, amount assessed		70,000.00
Cash, received of sundry persons on taxes and assessments	8,791.67	
Interest on deposit in banks	649.13	
Charles F. Spear, on tax titles released	350.32	
Real Estate Liens, interest on taxes on property sold to the city	72.31	
	<hr/>	9,863.43
		<hr/>
		\$79,863.43

DEBIT.

Cash, paid on Funded Debt:—		
\$915,000, one year at 4 per cent.	\$36,600.00	
\$132,000, six months at 4 per cent.	2,640.00	
\$225,000, one year at $4\frac{1}{2}$ per cent.	10,125.00	
\$35,000, six months at 5 per cent.	875.00	
	<hr/>	
	\$50,240.00	
Less coupons unpaid	1,100.00	
	<hr/>	
	\$49,140.00	
Sundry Persons, unpaid coupons	1,100.00	
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	\$50,240.00	
On Temporary Loans:—		
F. S. Moseley & Co., on notes of \$175,000, six months, in- terest at 3.91 per cent	\$3,412.50	
F. S. Moseley & Co., on note of \$175,000, four months, dis- counted at $4\frac{3}{8}$ per cent.	2,552.08	
	<hr/>	
<i>Amounts carried forward</i>	\$5,964.58	\$79,863.43

<i>Amounts brought forward</i> .	\$5,964.58	\$79,863.43
Estabrook & Co., on notes of \$50,000, six months and three days, discounted at $3\frac{5}{8}$ per cent., less premium of \$6.50 .	914.85	
Blake Brothers & Co., on note of \$50,000, four months, discounted at 3.81 per cent. . .	633.33	
F. S. Moseley & Co., on note of \$176,774.31, seventy - three days, discounted at 5 per cent., 1-16 of 1 per cent. commission	1,901.66	
Blake Brothers & Co., on note of \$30,000, three months, 6 per cent., commission $\frac{1}{8}$ of 1 per cent.	487.50	
Blake Brothers & Co., on note of \$15,000, three months, 6 per cent., commission 3-16 of 1 per cent.	253.12	
Blake Brothers & Co., on note of \$30,000, —three months twelve days, at 6 per cent., commission $\frac{1}{8}$ of 1 per cent. .	547.50	
Blake Brothers & Co., on note of \$10,000, three months, at 6 per cent., commission 3-16 of 1 per cent.	168.75	
Blake Brothers & Co., on note of \$15,000, three months, at 6 per cent., commission $\frac{1}{8}$ of 1 per cent.	243.75	
Boston Five Cents Savings Bank, on note of \$25,000, six months, at $4\frac{1}{2}$ per cent.,		
<i>Amounts carried forward</i> .	\$11,115.04	\$79,863.43

<i>Amounts brought forward</i>	\$11,115.04	\$79,863.43
and one month nineteen days at 6 per cent.	766.67	
Blake Brothers & Co., on notes of \$75,000, four months, at 6 per cent., commission $\frac{1}{8}$ of 1 per cent.	1,593.75	
Charlestown Five Cents Sav- ings Bank, on note of \$50,- 000, four months fifteen days, at 6 per cent.	1,125.00	
	<hr/>	
	\$14,600.46	
On Funded Debt	50,240.00	
On Temporary Loans	14,600.46	
Fire Department, amount trans- ferred	3,000.00	
Highways, amount transferred	1,500.00	
School Contingent, amount transferred	4,000.00	
Miscellaneous, amount trans- ferred	3,000.00	
Excess and Deficiency, balance to credit of account	3,522.97	
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		\$79,863.43

MISCELLANEOUS.

CREDIT.

Appropriations, amount assessed		\$7,000.00
Interest, amount transferred		3,000.00
		<hr/>
		\$10,000.00
Cash, received of Sundry Persons, costs on taxes and assess- ments	\$3,066.41	
Thomas Cunningham, milk inspector	3.00	
	<hr/>	
<i>Amounts carried forward</i>	\$3,069.41	\$10,000.00

<i>Amounts brought forward</i> .	\$3,069.41	\$10,000.00
C. S. Philbrick, milk inspector	151.00	
F. C. Fuller, plumbers' li- censes	36.50	
Fulton O'Brion, public weigh- er's fees	14.13	
Luther B. Pillsbury, fees for sealing weights and meas- ures	184.67	
Sundry Persons, licenses to peddle	50.00	
Engineering Department, amount of bills transferred .	97.75	
J. L. Whitaker, error in bill .	2.00	
A. P. Simpson, recording .	1.00	
George I. Vincent, city clerk:—		
Recording mort- gages	\$444.00	
Marriage certifi- cates	286.50	
Licensing dogs	223.60	
Amusements	147.50	
Junk licenses	66.00	
Auctioneers' li- censes	42.00	
Intelligence of- fices	18.00	
Street musicians	33.00	
Billiards and pool	42.00	
Fireworks	73.00	
Slaughtering li- censes	3.00	
Naturalization fees . . . . .	.50	
Copies of records	25.00	
	<hr/> 1,404.10	
<i>Amounts carried forward</i> .	\$5,010.56	\$10,000.00

<i>Amounts brought forward</i> .	\$5,010.56	\$10,000.00
Real Estate Liens, costs on property deeded to the city	92.95	
		5,103.51
Excess and Deficiency, balance to debit of account		761.01
		<u>\$15,864.52</u>

DEBIT.

Cash, paid Precinct Officers . . .	\$1,620.00	
Arthur D. Osborne, census of births	107.00	
John M. Schroeder, census of births	44.28	
Charles E. Sewall	97.70	
Elizabeth S. Webster	44.30	
Charles L. Ellis, salary as Dep- uty Collector	1,000.00	
Charles L. Ellis, car fares . . .	9.90	
Lucia A. Manning, clerical ser- vices	418.69	
Edith A. Woodman, clerical services	418.68	
Ella L. Daniels, clerical services	137.34	
Ella D. Gray, clerical services .	93.34	
Mabel Olmsted, clerical services	160.67	
Elizabeth Goldsmith, clerical services	38.67	
Luella M. Eaton, clerical ser- vices	80.00	
Arthur Atwood, clerical services	94.00	
Freeman L. Lowell, clerical services	94.00	
William H. J. Thompson, cleri- cal services	94.00	
Charles G. Brett, clerical ser- vices	51.00	
<i>Amounts carried forward</i> .	<u>\$4,603.57</u>	<u>\$15,864.52</u>

<i>Amounts brought forward,</i>	\$4,603.57	\$15,864.52
Frank E. Merrill, clerical services	54.00	
William P. Pitman, clerical services	45.00	
William P. Mitchell, clerical services	6.00	
Fred W. Cook, clerical services	6.00	
Ammiel Colman, salary as Sealer of Weights and Measures	75.00	
Luther B. Pillsbury, salary as Sealer of Weights and Measures, etc.	250.00	
Selwyn Z. Bowman, disbursements	304.47	
Jennie L. Jones, disbursements	13.40	
Ernest W. Bailey, disbursements	2.00	
Fred E. Jones, disbursements	14.62	
Katherine W. Wood, disbursements	12.60	
Leighton W. Manning, disbursements	7.10	
George I. Vincent, disbursements	4.15	
Ernest W. Abbott, numbering houses	39.00	
E. B. Morgan, expert testimony	12.50	
William A. Muzzey, expert testimony	25.00	
Charles D. Elliott, expert testimony	16.45	
O. H. Perry, expert testimony	12.50	
Mark Leighton, expert testimony	20.00	
J. A. Ricker, expert testimony	20.00	
<i>Amounts carried forward</i>	<u>\$5,543.36</u>	<u>\$15,864.52</u>

<i>Amounts brought forward</i> .	\$5,543.36	\$15,864.52
Aaron H. Gould, expert testimony	50.00	
Citizen Publishing Co., printing	2.00	
Somerville Citizen Co., printing	19.50	
Thomas Groom & Co., stationery	25.25	
Smith Premier Typewriter Co., typewriters	290.75	
W. H. Burbank & Co., ribbon	1.00	
Blackbird Pen Co., pens	2.50	
Boston Woven Hose & Rubber Co., gong	6.00	
Ingalls & Kendricken, repairing boiler	11.52	
F. A. Fuller & Co., carpentering	495.09	
G. F. Matthews, carpentering	13.60	
Fermoyle & Butler, painting	2.50	
Robert S. Robson, repairing ballot boxes	41.00	
John H. Pray, Sons & Co., carpet	61.21	
Jackson, Caldwell & Co., carpet	3.19	
H. A. Pestell, curtains	3.57	
Paine Furniture Co., furniture	7.00	
William H. Brine, dry goods	11.55	
Frost & Adams, engineers' supplies	23.00	
James Bartley, supplies	12.85	
Howe & Flint, supplies	13.76	
H. W. Burgess, oil	1.66	
American Oil Co., oil . . . . .	.60	
George O. W. Servis, supplies	10.13	
S. H. Whitcomb, cleaning carpet	1.00	
F. D. Weld, ladder	6.00	
<i>Amounts carried forward</i> .	<u>\$6,659.59</u>	<u>\$15,864.52</u>

<i>Amounts brought forward</i>	\$6,659.59	\$15,864.52
City of Boston, water	39.72	
Cambridge Gaslight Co., gas	45.73	
Somerville Electric Light Co., lighting	310.00	
New Eng. Telephone & Tele- graph Co., rentals and tolls	207.47	
Pettingill, Andrews Co., elec- trical supplies	14.37	
F. W. Merrill, electrical supplies	11.70	
B. F. Wild & Co., fuel	109.75	
I. L. Smith, fuel	204.55	
F. J. Stanley, boarding horses	632.00	
Cadogan Bros., horseshoeing	23.40	
Seward Dodge, horseshoeing	15.00	
George W. York & Co., repairs of carriage	23.00	
Charles L. Underhill, repairs of carriage	4.15	
F. C. Boardman, buggy	185.00	
Welch & Hall, horse	150.00	
A. M. Prescott, harness work	72.25	
Charles E. Berry, harness work	21.00	
E. Spaulding, harness work	4.75	
H. A. Brownell, harness work	5.50	
W. P. Shaw, harness work	1.75	
D. J. Bennett, harness work	33.00	
L. H. Brown, carriage hire	215.00	
Eugene Mead, carriage hire	62.00	
J. H. Thompson, carriage hire	12.00	
M. G. Staples, teaming	11.44	
Stilphen & Co., expressing	9.00	
Charles E. Farnham, express- ing	1.85	
Bancroft's Express, expressing	.90	
E. R. Perham, expressing	12.45	
<i>Amounts carried forward</i>	<u>\$9,098.32</u>	<u>\$15,864.52</u>

<i>Amounts brought forward</i>	\$9,098.32	\$15,864.52
Thorpe's Express, expressing	4.65	
McIntire & Co., expressing	1.40	
Glines & Co., expressing	1.10	
J. W. Coveney, rent of P. O. box	4.00	
Charles S. Robertson, premium of insurance	54.00	
John Stackpole, expert testi- mony	12.50	
Yale & Towne Mfg. Co., in- specting time lock	10.00	
C. M. Blake, newspapers	3.00	
Charles C. Ellis, return of births	2.25	
P. J. Finnegan, return of births	3.75	
A. Ward Follett, return of births	12.50	
Douglass F. Flewelling, return of births	2.25	
P. M. Fitzsimmons, return of births	.75	
A. W. Forbush, return of births	1.75	
G. W. Greenleaf, return of births	1.00	
A. A. Gibson, return of births	13.75	
John A. Gregg, return of births	7.25	
A. B. Gould, return of births	.50	
Allen Greenwood, return of births	.25	
Sanford Hanscom, return of births	3.50	
W. J. Hatchett, return of births	2.75	
Anna C. Hands, return of births	1.00	
H. A. Hands, return of births	4.75	
<i>Amounts carried forward</i>	<u>\$9,246.97</u>	<u>\$15,864.52</u>

<i>Amounts brought forward</i> .	\$9,246.97	\$15,864.52
H. A. Houghton, return of births . . . . .	.25	
H. R. Higgins, return of births .	.25	
H. C. White, return of births .	7.00	
Albert C. Aldrich, return of births	8.25	
Winifred H. Ames, return of births . . . . .	.25	
L. N. Bump, return of births .	.25	
G. W. Bryant, return of births .	7.75	
W. H. Bailey, return of births .	7.75	
W. A. Bell, return of births .	8.50	
C. K. Cutter, return of births .	2.00	
Henry F. Curtis, return of births	6.25	
C. K. Cavanagh, return of births .	.50	
A. H. Carvill, return of births .	2.25	
John B. Curtis, return of births .	10.50	
W. Crocker Clark, return of births	1.25	
Frederick Coggshall, return of births . . . . .	.25	
Mary B. Currier, return of births	1.75	
James E. Cleaves, return of births . . . . .	.50	
W. H. Clancy, return of births .	.50	
George S. Cahill, return of births . . . . .	.50	
George A. Coburn, return of births	5.00	
Charles S. Cahill, return of births	8.25	
Thomas Cozier, return of births .	.50	
A. B. Dearborn, return of births .	9.00	
<i>Amounts carried forward</i> .	<u>\$6,336.22</u>	<u>\$15,864.52</u>

<i>Amounts brought forward</i>	\$9,336.22	\$15,864.52
Thomas M. Durell, return of births	17.00	
Roland A. Davis, return of births	1.00	
Edmond S. Dow, return of births	.25	
H. Ashton Downes, return of births	.75	
R. Willis, return of births	4.00	
John F. Couch, return of births	35.50	
G. E. Hetherington, return of births	1.00	
W. P. Hammond, return of births	2.25	
E. S. Kimpton, return of births	2.00	
Mary Kelley, return of births	.50	
R. L. Lane, return of births	4.50	
Thomas J. Leahy, return of births	.25	
Horace Leavitt, return of births	1.25	
R. L. McDonald, return of births	.50	
J. A. McDonald, return of births	1.00	
G. C. Mahoney, return of births	.25	
A. Moll, return of births	3.25	
Emily I. Morrissey, return of births	.50	
H. B. McIntire, return of births	1.00	
George A. Miles, return of births	8.75	
A. E. Merrill, return of births	3.75	
Charles E. Mongan, return of births	6.25	
H. P. Makechnie, return of births	1.25	
<i>Amounts carried forward</i>	<u>\$9,432.97</u>	<u>\$15,864.52</u>

<i>Amounts brought forward</i>	\$9,432.97	\$15,864.52
Frank L. Newton, return of births	4.00	
L. P. O'Donnell, return of births	6.50	
Emily J. Peaseley, return of births	.25	
E. M. Phillips, return of births	.50	
E. A. Sanborn, return of births	.25	
F. G. Smith, return of births	2.75	
E. H. Stevens, return of births	5.00	
H. S. Trueman, return of births	3.50	
F. W. Taylor, return of births	4.75	
W. H. Tyler, return of births	1.75	
Anna B. Taylor, return of births	3.00	
J. K. Welch, return of births	1.25	
Roswell Weatherbee, return of births	.50	
G. W. W. Whiting, return of births	6.75	
E. H. Marsh, reporting deaths	27.75	
W. A. Frink, reporting deaths	11.75	
Alfred E. Mann, reporting deaths	26.00	
Francis M. Wilson, reporting deaths	14.00	
John S. McGowan, reporting deaths	9.50	
William A. Flaherty, reporting deaths	36.25	
T. Weston Bryant, reporting deaths	.50	
John E. Bryant, reporting deaths	7.00	
C. F. Bryant, reporting deaths	4.25	
<i>Amounts carried forward</i>	\$9,610.72	\$15,864.52

<i>Amounts brought forward</i>	\$9,610.72	\$15,864.52
John G. Nichols, compensation for damages	250.00	
Mary Ann Veazie, compensa- tion for damages	300.00	
Frank V. Fonseca, compensa- tion for damages	125.00	
Lucy A. Mayall, compensation for damages	500.00	
Mary Healey, compensation for damages	100.00	
Maurice White, compensation for damages	50.00	
John F. O'Brien, labor	11.00	
N. L. Pennock, labor	6.50	
R. C. Burckes, labor	10.00	
W. H. Laskey, labor	6.00	
F. S. Dickinson, labor	7.00	
E. P. Cook, labor	7.00	
W. F. Marble, labor	2.00	
James G. Wright, labor	2.50	
James L. Whitaker, labor	7.00	
J. E. Baird, labor	1.60	
E. A. Parker, labor	2.00	
Lizzie A. Southwick, labor	72.30	
Howard P. Southwick, labor	108.45	
Charles A. Southwick, labor	21.00	
W. H. Kelley, labor	17.00	
J. H. Smith, labor	28.00	
Alfred Shiner, labor	2.20	
Fred H. Parker, labor	4.00	
Bernard F. Sheriden, labor	2.00	
A. B. Colesworthy, labor	4.50	
E. T. Peterson, labor	4.50	
Alfred F. Shiner, labor	5.40	
Mrs. Hartness, labor	5.00	
<i>Amounts carried forward</i>	<u>\$11,272.67</u>	<u>\$15,864.52</u>

<i>Amounts brought forward</i>	.	\$11,272.67	\$15,864.52
C. H. Weston, labor	.	5.00	
Lewis G. Keen, labor	.	5.00	
Thomas McNee, labor	.	13.00	
D. G. Marshall, labor	.	5.00	
Edward J. Young, labor	.	2.00	
Edward W. Fowle, ringing bell		3.00	
A. Strahan, ringing bell	.	12.00	
Howard Colbath, ringing bell	.	9.00	
W. H. Young, ringing bell	.	12.00	
George Swift, ringing bell	.	12.00	
E. A. Maynard, ringing bell	.	9.00	
George W. Littlefield, ringing bell	.	9.00	
Charles A. Earle, ringing bell	.	12.00	
Warren E. Locke, rent of hall	.	21.00	
Philip Eberle, rent of hall	.	45.00	
Trustees G. A. R. Hall, rent of hall	.	10.00	
Odd Fellows' Building Association, rent of hall	.	30.00	
Whitney & Snow, hardware	.	108.32	
W. E. Plumer & Co., hardware	.	6.66	
J. A. Durell, hardware	.	.50	
Middlesex Co. Truant School, board of truants	.	826.27	
L. A. Angier, use of team	.	65.00	
S. J. Wood, keys, etc.	.	9.75	
F. H. Burrows, turkeys	.	108.40	
C. P. Brann & Co., turkeys	.	73.78	
F. N. Downs, turkeys	.	87.70	
S. S. Higgins, turkeys	.	76.20	
L. W. Manning, turkeys	.	89.30	
Jesse A. Dill, refreshments	.	30.00	
F. E. Cheney & Co., refreshments	.	52.10	
<i>Amounts carried forward,</i>	.	\$13,020.65	\$15,864.52

<i>Amounts brought forward</i>	\$13,020.65	\$15,864.52
Silas D. Carter, refreshments	12.00	
H. H. Tilton & Co., display of fireworks	450.00	
Benjamin F. Teele, services of band	75.00	
Hartwell & Richardson, first premium for plans of new city hall	1,000.00	
Willard C. Kinsley Post, No. 139, G. A. R., contribution for observance of Memorial Day	350.00	
Company M, 8th Regt., M. V. M., contribution for rifle practice	250.00	
W. A. Snow & Co., fountain	101.50	
Charles B. Stevens, recording	54.55	
James F. Davlin, plumbing	12.38	
John A. Merrifield, plumbing	19.34	
A. A. Sanborn, steam fitting	62.52	
Miller & Shaw, coupon cutter	30.73	
Thomas Hollis, gum arabic	1.00	
Benjamin F. Freeman, pastel	70.00	
James A. McLane, posting	47.60	
Stillman H. Libbey, services as auctioneer	21.60	
William Buckley, veterinary services	8.00	
Flemming & Co., repairing furniture	27.40	
A. B. & E. L. Shaw, repairing furniture	10.50	
Hopkins & Holden, measures	1.15	
Cambridge Ice Co., ice	45.00	
William S. Ward, supplies	.80	
<i>Amounts carried forward</i>	<u>\$15,671.72</u>	<u>\$15,864.52</u>

<i>Amounts brought forward</i>	\$15,671.72	\$15,864.52
W. H. Bullard, salt	.90	
M. A. Mann, laundering	24.00	
Western Union Telegraph Co., telegram	.40	
G. H. Griffin, watchman	148.00	
S. E. Gilmore, telephone clerk	19.50	
		<u>15,864.52</u>

OVERLAY AND ABATEMENT.

CREDIT.

Balance from 1895	\$329.58
Taxes, amount added by the Assessors for convenience in apportionment, to be applied to abatement on taxes	21,890.34
Cash, taxes collected	18.41
	<u>\$22,238.33</u>

DEBIT.

Taxes, amount of abatements	\$20,095.41
Balance to credit of account of 1897	2,142.92
	<u>\$22,238.33</u>

OVERPLUS ON TAX SALES.

CREDIT.

Balance from 1895	\$102.13
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DEBIT.

Balance to 1897	<u>102.13</u>
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POLICE.

CREDIT.

Appropriations, amount assessed	\$46,000.00
Police Station Incidentals, amount transferred	1,000.00
Reduction of Funded Debt, amount transferred	2,500.00
<i>Amount carried forward</i>	<u>\$49,500.00</u>

<i>Amount brought forward</i>		\$49,500.00
Cash, received of Herbert A. Chapin, clerk of the courts, officers' fees, fines, etc.	\$4,031.00	
John M. Fisk, master of house of correction, fines, etc. . . .	207.50	
John R. Fairbairn, master of house of correction, fines, etc. . . .	971.50	
	<hr/>	5,210.00
Excess and Deficiency, balance to debit of account		981.62
		<hr/>
		\$55,691.62

DEBIT.

Cash, paid M. C. Parkhurst, chief	\$1,900.00	
Robert R. Perry, captain	1,500.00	
Edward McGarr, sergeant	1,200.00	
Christopher C. Cavanagh, ser- geant	1,200.00	
Dennis Kelley, sergeant	1,200.00	
Eugene A. Carter, sergeant	1,200.00	
John E. Fuller, patrolman	1,098.00	
Samuel A. Brown, patrolman	1,098.00	
George L. Smith, patrolman	1,059.00	
Edward M. Carter, patrolman	1,077.00	
George W. Bean, patrolman	966.00	
George A. Bodge, patrolman	1,098.00	
Phineas W. Skinner, patrolman	1,098.00	
Edward E. Hamblen, patrolman	417.00	
John Hafford, patrolman	849.00	
Albion L. Staples, patrolman	1,098.00	
George H. Carleton, patrolman	1,098.00	
Judson W. Oliver, patrolman	1,098.00	
Francis A. Perkins, patrolman	1,092.00	
Charles S. Thrasher, patrolman	1,098.00	
William H. Johnston, patrol- man	1,098.00	
<i>Amounts carried forward</i>	<hr/> \$23,542.00	<hr/> \$55,691.62

<i>Amounts brought forward,</i>	\$23,542.00	\$55,691.62
Charles E. Woodman, patrolman	1,098.00	
Arthur E. Keating, patrolman	1,098.00	
John G. Knight, patrolman	1,092.00	
Stephen S. Smith, patrolman	1,080.00	
Jacob W. Skinner, patrolman	1,098.00	
Theodore E. Heron, patrolman	1,098.00	
David A. Bolton, patrolman	1,092.00	
Ulysses G. Skinner, patrolman	1,098.00	
James M. Harmon, patrolman	1,095.00	
Michael T. Kennedy, patrolman	1,086.00	
Charles W. Stevens, patrolman	1,098.00	
Ira C. Carleton, patrolman	1,098.00	
Ezra S. Dodge, patrolman	1,098.00	
Eugene H. Gammon, patrolman	1,098.00	
James J. Pollard, patrolman	1,065.00	
Daniel G. Simons, patrolman	1,098.00	
Samuel Burns, patrolman	1,067.25	
Frederic H. Googins, patrolman	1,061.75	
Jotham Chisholm, patrolman	1,063.50	
William J. Davidson, patrolman	965.50	
Elmer E. Drew, patrolman	955.00	
John A. Dadmun, reserve patrolman	915.00	
John A. Ray, reserve patrolman	877.50	
Eugene A. Woodsum, reserve patrolman	915.00	
Herbert Hilton, reserve patrolman	915.00	
George L. Rice, reserve patrolman	915.00	
Myron S. Gott, reserve patrolman	880.00	
Charles W. Reick, reserve patrolman	915.00	
<i>Amounts carried forward</i>	<u>\$52,477.50</u>	<u>\$55,691.62</u>

<i>Amounts brought forward</i> .	\$52,477.50	\$55,691.62
Irving E. Wilton, special patrolman	18.00	
William H. Kelley, special patrolman	8.00	
Lewis R. Stewart, special patrolman	8.00	
N. L. Pennock, special patrolman	8.00	
George H. Dearborn, special patrolman	8.00	
Frederick S. Dickinson, special patrolman	8.00	
Philip J. Fitzpatrick, special patrolman	8.00	
Edwin F. Reed, special patrolman	8.00	
Daniel H. Rinn, special patrolman	8.00	
Edward T. Peterson, special patrolman	8.00	
Cyrus D. Clark, special patrolman	8.00	
Daniel R. Spike, special patrolman	8.00	
Alfred N. Sibley, special patrolman	8.00	
Michael J. Daley, special patrolman	8.00	
Peter J. Savage, special patrolman	8.00	
Lambert M. Maynard, special patrolman	8.00	
Augustus R. Lewis, special patrolman	8.00	
Charles H. Weston, special patrolman	8.00	
<i>Amounts carried forward</i> .	<u>\$52,631.50</u>	<u>\$55,691.62</u>

<i>Amounts brought forward</i> .	\$52,681.50	\$55,691.62
Frank Nicolson, work on po- lice signal	720.00	
Warren H. Smith, stable man .	730.00	
George R. Dale, stable man .	41.00	
Albert R. Shaw, stable man .	28.00	
Melville C. Parkhurst, lockup keeper	100.00	
Disbursements	12.00	
Dennis Kelley, disbursements .	78.11	
Eugene A. Carter, disburse- ments	75.52	
Lemuel H. Snow, disbursements	21.85	
George H. Carleton, disburse- ments	9.84	
Edward M. Carter, disburse- ments	5.44	
Albion L. Staples, disburse- ments	1.80	
Mary A. Staples, matron .	212.50	
Fresh Pond Ice Co., ice . . .	35.00	
Thomas Groom & Co., sta- tionery	30.95	
M. L. Vinal, stationery . . .	3.60	
H. Barrett, photographs . . .	15.50	
Somerville Journal Co., adver- tising	21.45	
Fulton O'Brien, hay and grain	206.97	
Ira L. Roberts, blacksmithing	65.00	
Whitney & Snow, hardware .	27.26	
W. E. Plumer & Co., hardware	4.14	
Howe & Flint, hardware . . .	8.93	
Milton H. Plummer, stable sup- plies	2.80	
Pettingill, Andrews & Co., electrical supplies	82.99	
<i>Amounts carried forward</i> .	\$55,172.15	\$55,691.62

<i>Amounts brought forward</i>	\$55,172.15	\$55,691.62
Thomas W. Gleason, electrical supplies	4.35	
Elijah Walker, carpentering	1.20	
L. D. Miller, polish	2.00	
Rose Blanchard, meals	47.50	
Mrs. J. Herron, meals	4.25	
I. L. Smith, fuel	31.76	
New Eng. Telephone & Telegraph Co., rentals and tolls	132.24	
R. M. Sturtevant, oil, etc.	5.72	
James Bartley, naphtha	1.10	
T. H. Fenelon, drugs	1.70	
C. H. Paine, drugs	1.00	
Charles E. Berry, harness work	11.00	
E. Spalding, harness work	5.50	
Charles Waugh & Co., repairing ambulance	5.50	
Union Sq. Carriage Co., repairs of wagons	43.25	
Seward Dodge, repairs of wagons	1.85	
J. Chabot, repairs of safe	15.00	
D. Cutter, repairing badges	1.25	
James T. Fitzgerald, carriage hire	16.00	
L. H. Brown, carriage hire	8.00	
W. Schuebeler, towels	1.80	
Jackson Caldwell & Co., comforters	9.00	
J. H. Brooks, dry goods	1.50	
M. R. Warren, books	16.50	
Little, Brown & Co., books	3.00	
Frank Shepard, books	3.00	
J. M. Martin, deflector	4.00	
<i>Amounts carried forward</i>	<u>\$55,551.12</u>	<u>\$55,691.62</u>

<i>Amounts brought forward</i>	\$55,551.12	\$55,691.62
Fuller, Leonard & Small, rubber tubing	2.40	
F. D. Snow, door stop	8.50	
Union Glass Co., lanterns	8.00	
C. M. Blake, newspapers	15.00	
Sulpho Naphthol Co., sulpho naphthol	3.00	
S. H. Atkins, disinfectant	3.00	
C. W. Leonard, disinfectant	12.50	
Francis S. Brown, tarine	1.00	
Oak Hall Clothing Co., wreathes	2.50	
Reilly Medal Co., badges	8.65	
W. A. Greenough & Co., directory	2.00	
James Bennett, labor on wires	7.50	
Frank Nicolson, labor on wires	4.00	
Philip J. Fitzpatrick, repairing chairs	3.50	
S. J. Wood, keys . . . . .	.50	
F. G. Ray & Son, laundering	47.48	
George C. Frost, laundering	6.39	
Charles E. Farnham, expressing	3.53	
George T. Day, expressing . . . . .	.70	
A. G. Renner, expressing . . . . .	.35	
	<hr/>	<hr/>
		\$55,691.62

POLICE STATION INCIDENTALS.

CREDIT.

Appropriations, amount assessed	\$3,000.00
Cash, received of Commonwealth of Massachusetts, rent of armory	300.00
County of Middlesex, rent of Court Room	600.00
<i>Amount carried forward</i>	<hr/>
	\$3,900.00

Amount brought forward \$3,900.00

DEBIT.

Cash, paid Henry S. Braden, janitor	\$850.00
Frank W. Allen, assistant janitor	28.00
Horatio Wellington Co., fuel	219.10
I. L. Smith, fuel	124.60
Cambridge Gaslight Co., gas	542.23
City of Boston, water	75.60
Jackson Caldwell & Co., carpets	62.50
J. Q. Twombly, painting	90.93
A. A. Sanborn, steam fitting	13.55
Howe & Flint, hardware	37.53
Whitney & Snow, hardware	5.15
W. E. Plumer & Co., hardware	5.05
J. F. Davlin, plumbing	23.85
George H. Maynard, plumbing	3.75
L. C. Seavey, roofing	49.60
E. Horn, mason work	2.13
R. M. Sturtevant, supplies	13.57
Boston Gas Appliance Exchange Co., gas fixtures	71.30
W. S. Burbank, sawdust	2.40
Columbia Insecticide Co., insecticide	7.50
George W. Manning, labor	58.52
	<hr/>
	\$2,286.86
Police, amount transferred	1,000.00
Excess and Deficiency, balance to credit of account	613.14
	<hr/>
	<u>\$3,900.00</u>

PRINTING AND STATIONERY.

CREDIT.

Appropriations, amount assessed	\$6,500.00	
Cash, received of Sidewalks account for advertising	54.00	
Excess and Deficiency, balance to debit of account	534.51	
		<hr/>
		\$7,088.51

DEBIT.

Cash, paid Somerville Journal Co., printing and advertising	\$2,231.86	
Citizen Publishing Co., printing and advertising	370.75	
Somerville Citizen Co., printing and advertising	204.28	
American Printing and Engraving Co., printing annual report	1,302.60	
Babb & Stephens, printing	81.50	
Forbes Lithograph Co., printing	125.00	
J. A. Cummings Printing Co., printing	15.50	
Thomas Groom & Co., stationery, etc.	2,513.77	
G. W. Bromley & Co., atlases	90.00	
Greenough, Adams & Cushing, ink, etc.	4.34	
Byron Boyd, abstracts	19.00	
Frost & Adams Co., paper	5.61	
Blackbird Pen Co., pens	6.25	
C. G. Hurlburt, eyelets	2.00	
Dame, Stoddard & Kendall, sharpening erasers . . . . .	.56	
George B. Sargent & Son, stamp	4.59	
	<hr/>	<hr/>
<i>Amounts carried forward</i>	\$6,977.61	\$7,088.51

<i>Amounts brought forward</i>	\$6,977.61	\$7,088.51
H. W. Kibbe, engrossing resolutions	5.00	
G. H. Walker & Co., maps	56.00	
Heliotype Printing Co., maps	34.00	
W. A. Greenough, directories	9.00	
The Smith Premier Typewriter Co., paper and ribbon	6.90	
		<u>\$7,088.51</u>

PROPERTY AND DEBT BALANCE.

CREDIT.

Balance from 1895	\$850,120.40
Public Property, property acquired in 1896	159,090.25
Reduction of Funded Debt, bonds paid	152,500.00
	<u>\$1,161,710.65</u>

DEBIT.

Appropriations, amount borrowed on Funded Debt account	\$177,000.00
Balance to credit in account of 1897	984,710.65
	<u>1,161,710.65</u>

PUBLIC GROUNDS.

CREDIT.

Appropriations, amount assessed	\$7,000.00
Cash, received of G. M. Starbird, teaming	\$10.00
Peter Savage, money not called for	5.25
Schoolhouse Incidentals, labor	5.00
	<u>20.25</u>
<i>Amount carried forward</i>	<u>\$7,020.25</u>

Amount brought forward \$7,020.25

DEBIT.

Cash, paid laborers	\$3,904.48	
J. W. Howard, shrubs	633.45	
Shady Hill Nursery, trees	114.60	
W. A. Snow & Co., settees	110.00	
Joseph Breck & Son, repairing mowers, etc.	31.05	
Whitney & Snow, tools, etc. . . .	28.04	
J. A. Durell, tools, etc.	55.32	
Collins & Richards, hose	66.00	
J. Lincoln Collins, hose	24.00	
Henry Lovesy, vases	130.00	
A. M. Prescott, teaming	58.51	
George W. Prichard, teaming	67.00	
City of Boston, water	59.00	
Underhill Hardware Co., hard- ware	1.50	
W. I. Heald, oil	3.30	
Harry W. Goodnow, refresh- ments	8.00	
Ernest W. Bailey, car fares	5.64	
Barbour, Stockwell & Co., iron fence	104.00	
The Williams Table & Lumber Co., lumber	1.98	
I. H. Brown Moulding Co., lumber	30.50	
C. L. Kimball, trustee, lumber	11.25	
W. A. Murtfeldt, concreting	623.11	
Sweatt & Gould, stone posts	96.00	
Alfred H. Hines, granite steps	111.40	
Timothy F. Crimmings, grading	164.57	
B. F. Wild & Co., fuel	2.12	
James H. Fuller, repairing flag	1.00	
<i>Amounts carried forward</i>	\$6,445.82	\$7,020.25

<i>Amounts brought forward</i> .	\$6,445.82	\$7,020.25
Joseph Young, repairing mowers	30.50	
Osgood & Stevens, carpentering	16.65	
Frank A. Fuller & Co., carpentering	3.65	
George W. Manning, labor on flagstaff	37.75	
L. A. Wright, repairing carts .	18.18	
George E. Lowell, carriage hire	11.00	
Charles E. Farnham, expressing. . . . .	.50	
Glines & Co., expressing .	.25	
Water Service assessments, water services	30.00	
Water Maintenance account, pipe and labor	133.03	
Highways account, sidewalk .	125.89	
	<hr/>	
	\$6,853.22	
Excess and Deficiency, balance to credit of account	167.03	
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		\$7,020.25

PUBLIC LIBRARY.

CREDIT.

Balance from 1895		\$120.34
Appropriations, amount assessed		8,000.00
Cash, received of County Treasurer return on amount received of the city for dog licenses in 1895	\$2,506.29	
John S. Hayes, librarian, fines .	313.08	
John S. Hayes, catalogues .	77.25	
	<hr/>	
		2,896.62
		<hr/>
<i>Amount carried forward</i>		\$11,016.96

Amount brought forward \$11,016.96

DEBIT.

Cash, paid Little, Brown & Co., books	\$1,026.09	
George E. Littlefield, books	171.75	
C. F. Libbie & Co., books	848.07	
Lee & Shepard, books	487.45	
William H. Guild & Co., books	171.27	
Estes & Lauriat, books	48.65	
C. E. Hayes, books	41.90	
Arthur I. Plaisted, books	40.65	
C. L. Woodward, books	32.63	
Sargent Morss, books	13.00	
A. P. C. Griffin, books	3.60	
W. F. Adams & Co., books	8.00	
E. F. Bigelow, books	7.20	
Desmond Publishing Co., books	6.75	
William J. Campbell, books	6.00	
S. H. Chadbourne, books	6.25	
Library Bureau, books	1.00	
Brookline Historical Publishing Society, books	2.00	
C. J. Maynard, books	3.00	
Willard Small, books	12.55	
B. Abbott & Co., books	62.00	
Ginn & Co., books	10.94	
Houghton, Mifflin & Co., books	34.19	
Engineering Mechanics	2.00	
Peter Hall Book Co., books	10.00	
Eben Putnam, books	3.00	
American Book Co., books	24.55	
Outing Publishing Co., books	3.50	
Trans-Atlantic Publishing Co., books	3.75	
Publishers' Weekly, books	19.50	
<i>Amounts carried forward</i>	<u>\$3,111.24</u>	<u>\$11,016.96</u>

<i>Amounts brought forward</i>	\$3,111.24	\$11,016.96
J. F. Lovering, books	4.50	
New Eng. News Co., books	23.59	
W. R. Bradford, books	7.50	
W. P. Mitchell, books	2.25	
Committee of Publication, books	4.20	
Perry Mason & Co., books	3.43	
George T. Bailey, newspapers	10.50	
C. M. Blake, newspapers	4.50	
P. B. Sanford, binding books	714.99	
F. J. Barnard & Co., binding books	34.35	
Charles W. Facey, binding books	23.98	
Nelson Manufacturing Co., binders	21.05	
H. H. Ballard, binders	14.17	
Somerville Journal Co., print- ing	1,671.60	
Citizen Publishing Co., printing	7.85	
Abram Keach, printing	47.30	
Frank W. Kaan, map	5.00	
Olin S. Davis, utility pockets	10.65	
Bigelow, Dowse & Co., locks	8.50	
City of Boston, water	26.00	
Cambridge Gaslight Co., gas	48.34	
Somerville Electric Light Co., lighting	244.74	
B. F. Wild & Co., fuel	188.45	
I. L. Smith, fuel	153.13	
W. F. Eccles, repairing furni- ture	36.95	
Elms, Arey & Co., windows	13.00	
Stewart Screen Co., screens	24.00	
Whitney & Snow, hardware	4.02	
<i>Amounts carried forward</i>	<u>\$6,469.78</u>	<u>\$11,016 96</u>

<i>Amounts brought forward</i> .	\$6,469.78	\$11,016.96
W. B. Badger & Co., furniture	7.00	
Hooper Lewis & Co., paste .	10.50	
Fred W. Merrill, labor . .	12.40	
Augustus Langell, labor . .	3.00	
A. A. Parker, labor . . .	10.00	
G. H. Maynard, labor . . .	3.00	
S. G. Downing & Co., tube cleaner	3.75	
William Hall & Co., tags .	2.80	
Hammond Typewriter Co., re- pairs to typewriter . . .	26.00	
Vermont Farm Machine Co., boxes	40.36	
H. C. Dimond & Co., rubber stamps	3.95	
Thomas Groom & Co., station- ery	47.95	
Greenough, Adams & Cushing, stationery	13.85	
George F. Matthews, carpenter- ing	59.10	
Glines & Co., expressing .	25.85	
Charles E. Farnham, express- ing	71.58	
E. R. Perham, expressing .	38.30	
American Express Co., express- ing	11.47	
G. H. Towle, expressing .	.55	
Creighton & Clark, branch office	33.33	
Howe & Flint, hardware .	20.55	
Charles S. Robertson, premium of insurance	27.00	
W. A. Greenough & Co., direc- tory	2.00	
A. Storrs & Bement Co., cards	31.40	
<i>Amounts carried forward</i> .	<u>\$6,975.47</u>	<u>\$11,016.96</u>

<i>Amounts brought forward</i>	\$6,975.47	\$11,016.96
Suffolk Engraving Co., electro- type	10.00	
Underhill Hardware Co., ash barrels	6.00	
Sprague & Hathaway Co., frames	16.42	
I. H. Brown Moulding Co., blocks	12.50	
Pettingill, Andrews & Co., elec- trical supplies	1.50	
John S. Hayes, librarian	2,000.00	
John S. Hayes, disbursements	81.90	
C. L. Bidwell, assistant librarian	458.33	
Anna L. Stone, assistant	400.00	
Mary J. Warren, assistant	400.00	
F. Mabel Norcross, cataloguer	390.00	
E. M. Mayhew, attendant	177.28	
Henry M. Sanborn, attendant	10.63	
Charles S. Wiggin, attendant	27.82	
Edward B. Thresher, attendant	2.16	
Henry Stoodley, attendant	1.36	
Trevor Pring, attendant	11.88	
Lon W. Bowers, attendant . . . . .	.80	
C. E. Cuddy, attendant	16.67	
L. C. Seavey, labor	6.03	
	<hr/>	
	\$11,006.75	
Balance to credit in account 1897	10.21	
	<hr/>	
		<u>\$11,016.96</u>

PUBLIC PROPERTY.

CREDIT.

Balance to debit in account 1897 \$2,515,710.65

DEBIT.

Property and Debt Balance, prop- erty acquired in 1896	\$159,090.25	
Balance from 1895	2,356,620.40	
	<hr/>	<u>\$2,515,710.65</u>

REAL ESTATE LIENS.

CREDIT.

Cash, received of Sundry Persons, tax titles re- leased	2,510.67
Balance to 1897	1,339.83
	<hr/>
	\$3,850.50

DEBIT.

Balance from 1895	\$3,050.88
Taxes, Interest and Costs on Prop- erty deeded to the city for non-payment of taxes of 1894 and 1895	799.62
	<hr/>
	\$3,850.50

REDUCTION OF FUNDED DEBT.

CREDIT.

Balance from 1895	\$10,438.33
Appropriations, amount assessed	95,000.00
Cash, received of Thomas P. Beal, receiver, divi- dend No. 7	2,281.50
Leland, Towle & Co., premium on bonds	4,890.96
City of Boston, Water Rates, transferred	4,657.67
Water Maintenance, transferred	259.89
	<hr/>
	\$117,528.35

DEBIT.

Property and Debt Balance, amount of reduction of Funded Debt 1896	\$105,500.00
Schoolhouse, Jacob T. Glines, Ad- dition, amount transferred	2,000.00
Schoolhouse, Luther V. Bell, Heat- ing, Ventilating and Sanitary Apparatus, transferred	100.00
Police, transferred	2,500.00
Sewers Maintenance, transferred	1,500.00
Balance to credit in account 1897	5,928.35
	<hr/>
	\$117,528.35

RENEWALS OF FUNDED DEBT.

CREDIT.

Appropriations, amount authorized by loans	\$47,000.00
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DEBIT.

Property and Debt balance, amount of Funded	
Debt renewed in 1896	47,000.00

RELIEF AND BURIAL OF INDIGENT SOLDIERS AND SAILORS.

CREDIT.

Appropriations, amount assessed	\$7,000.00
State of Massachusetts, burials	315.00
Excess and Deficiency, balance to debit of account	222.91
	<u>\$7,537.91</u>

DEBIT.

Cash, paid monthly pay rolls	\$6,847.00
Worcester Lunatic Hospital, board, etc.	334.59
Commonwealth of Massachu- setts, aid	41.32
George F. McKenna, services as undertaker	70.00
William A. Flaherty, services as undertaker	35.00
Alfred E. Mann, services as undertaker	70.00
Francis M. Wilson, services as undertaker	70.00
John Read, services as under- taker	35.00
Charles W. Cobb, services as undertaker	35.00
	<u>7,537.91</u>

SALARIES.

CREDIT.

Appropriations, amount assessed	\$5,700.00
Cash, received of Commonwealth of Massachusetts, National Bank and Corporation taxes	\$21,843.77
Engineering Department, engi- neer's assistants	753.80
	<hr/> 22,597.57
Excess and Deficiency, balance to debit of account	1,756.51
	<hr/> \$30,054.08

DEBIT.

Cash, paid Albion A. Perry, mayor	\$1,000.00
George I. Vincent, city clerk	2,400.00
John F. Cole, city treasurer and collector of taxes	3,200.00
Selwyn Z. Bowman, city solici- tor	1,650.00
Charles S. Robertson, city audi- tor	500.00
Charles S. Robertson, clerk of common council	250.00
William P. Mitchell, clerk of committees	1,800.00
Albert B. Fales, clerk of assess- ors	1,500.00
Beulah M. Peirce, assistant to treasurer	800.00
Alice T. Sleeper, assistant to treasurer	700.00
Louise B. McLaughlin, assist- ant to treasurer	472.00
Amy L. Manning, assistant to city clerk	700.00
Clara B. Snow, assistant to city clerk	500.00
<i>Amounts carried forward</i>	<hr/> \$15,472.00
	<hr/> \$30,054.08

<i>Amounts brought forward</i> .	\$15,472.00	\$30,054.08
Katherine W. Wood, assistant to clerk of assessors . . .	175.00	
Gertrude G. Kendall, assistant to clerk of assessors . . .	650.00	
Jennie L. Jones, assistant to clerk of assessors . . .	368.60	
Frederic W. Cook, assistant to clerk of committees . . .	900.00	
Jairus Mann, city messenger .	1,500.00	
Frederick C. Fuller, inspector of buildings	1,900.00	
D. C. Greene, inspector of plumbing	1,200.00	
Leighton W. Manning, superin- tendent of electric lines .	342.95	
Edward Backus, superintendent of electric lines	657.05	
Thomas Cunningham, inspector of milk and provisions .	83.33	
Charles S. Philbrick, inspector of milk	316.66	
Charles M. Berry, inspector of provisions	287.17	
Charles A. Southwick, janitor of City Hall and Public Li- brary	850.00	
Benjamin F. Thompson, as- sessor	900.00	
Nathan H. Reed, assessor . .	800.00	
Samuel T. Richards, assessor .	800.00	
Fred B. Clapp, assistant as- sessor	250.00	
Charles C. Farrington, assistant assessor	250.00	
<i>Amounts carried forward</i> .	<u>\$27,702.76</u>	<u>\$30,054.08</u>

<i>Amounts brought forward</i> .	\$27,702.76	\$30,054.08
Edgar T. Mayhew, assistant assessor	250.00	
Harry A. True, assistant assessor	250.00	
Cromwell G. Rowell, registrar of voters	200.00	
Charles E. Parks, registrar of voters	200.00	
Charles P. Lincoln, registrar of voters	200.00	
George I. Vincent, registrar of voters	200.00	
Ernest W. Bailey, city engineer	200.00	
Engineer's assistants	553.80	
Florence M. Grow, clerical services	193.35	
Gertrude F. Gray, clerical services	65.50	
Mabel L. Dadmun, clerical services	38.67	
	<hr/>	<hr/>
		30,054.08

SCHOOL CONTINGENT.

CREDIT.

Appropriations, amount assessed	\$18,000.00
Interest, amount transferred	4,000.00
Cash, received of Alfred Heath, tuition of non-resident pupil	\$31.00
Hiram E. Graffam, tuition of non-resident pupil	10.00
Clifton Williams, tuition of non-resident pupil	30.00
Mrs. E. F. Whitney, tuition of non-resident pupil	8.00
<i>Amounts carried forward</i> .	<hr/>
	\$79.00
	<hr/>
	\$22,000.00

<i>Amounts brought forward</i> .	\$79.00	\$22,000.00
George J. Raymond, tuition of non-resident pupil	30.00	
Daniel F. Wiley, tuition of non-resident pupil	40.00	
G. A. Southworth, amount collected for injury to books, etc.	111.53	
Houston & Henderson, discount on bill	1.70	
Cambridge Botanical Supply Co., discount on bill . . . .	.60	
Chandler & Barber, discount on bill	1.31	
Schoolhouse Incidentals account, water and gas	549.84	
		813.98
Excess and Deficiency, balance to debit of account		1,037.14
		<hr/>
		\$23,851.12

DEBIT.

Cash, paid Gordon A. Southworth, salary as supt. of schools . .	\$2,833.33	
Disbursements	138.38	
V. E. Hapgood, clerk in superintendent's office	616.67	
Lemuel H. Snow, truant officer	999.99	
Services taking school census	100.00	
Disbursements	1.60	
Jairus Mann, truant officer . .	50.01	
Ginn & Co., books	2,747.32	
Lothrop Publishing Co., books	97.45	
Werner Schoolbook Co., books	23.55	
American Book Co., books . .	749.75	
Silver, Burdett & Co., books . .	820.40	
Leach, Shewell & Sanborn, books	1,113.75	
<i>Amounts carried forward</i> .	\$10,292.20	\$23,851.12

<i>Amounts brought forward</i>	\$10,292.20	\$23,851.12
T. H. Castor & Co., books	98.21	
Houghton, Mifflin & Co., books	113.32	
Henry Holt & Co., books	22.61	
DeWolfe, Fiske & Co., books	194.34	
Willard Small, books	210.73	
Damrel & Upham, books	27.53	
The Baker & Taylor Co., books	2.47	
D. Appleton & Co., books	112.00	
Allyn & Bacon, books	87.05	
Eldredge & Bros., books	18.33	
Harper & Bros., books	46.45	
W. B. Clark & Co., books	3.29	
Practical Text Book Co., books	7.80	
Goodyear Publishing Co., books	20.11	
D. C. Heath & Co., books	422.93	
Longmans, Green & Co., books	6.00	
Emerson College of Oratory, books	54.25	
Boston School Supply Co., books	94.27	
Lee & Shepard, books	30.65	
Little, Brown & Co., books	30.15	
University Publishing Co., books	91.92	
E. H. Butler & Co., books	3.68	
William Ware & Co., books	75.00	
Franklin Publishing Co., chart	12.50	
Central School Supply House, chart	38.75	
G. W. Bromley & Co., atlas	20.00	
W. A. Greenough & Co., direc- tory	2.00	
J. L. Hammett & Co., supplies	577.45	
L. E. Knott Apparatus Co., supplies	510.21	
<i>Amounts carried forward</i>	<u>\$13,226.20</u>	<u>\$23,851.12</u>

<i>Amounts brought forward</i>	\$13,226.20	\$23,851.12
Franklin Educational Co., supplies	138.26	
Ellis Publishing Co., supplies	40.16	
M. L. King, supplies	1.92	
Winthrop B. Jones, supplies	4.62	
Dame, Stoddard & Kendall, supplies	11.29	
Marshall, Son & Co., supplies	1.65	
Mary P. Anderson, supplies	1.35	
Cambridge Botanical Supply Co., supplies	301.99	
W. A. Chadwick, supplies	2.50	
Jordan, Marsh & Co., supplies	10.94	
Wakefield Rattan Co., supplies	4.65	
Zeigler Electric Co., supplies	607.24	
Chandler & Barber, supplies	17.35	
W. H. Wood & Co., supplies	109.59	
Keuffel & Esser, supplies	14.20	
Wadsworth, Howland & Co., supplies	72.74	
John M. Woods & Co., supplies	7.58	
Joseph C. Godfrey, supplies	23.93	
Frost & Adams, drawing materials	147.82	
Pulsifer, Jordan & Co., drawing materials	6.99	
P. P. Caproni & Bros., drawing materials	43.60	
Eagle Pencil Co., drawing materials	102.23	
Alice F. Davenport, drawing materials	1.00	
George S. Perry & Co., stationery	361.59	
<i>Amounts carried forward</i>	\$15,261.39	\$23,851.12

<i>Amounts brought forward</i>	\$15,261.39	\$23,851.12
Greenough, Adams & Cushing, stationery	1,837.63	
George F. King & Merrill, sta- tionery	1,746.65	
Edward E. Babb & Co., sta- tionery	13.65	
Thorp & Martin Co., stationery	5.70	
Pulsifer, Cook & Co., stationery	109.15	
M. L. Vinal, stationery . . .	137.37	
Holden Patent Book Cover Co., covers	4.75	
Wyckoff, Seamans & Benedict Co., typewriters	379.00	
Smith Premier Typewriter Co., typewriters, etc	575.65	
Frank W. Mead, typewriter . .	40.00	
F. J. Barnard & Co., binding books	99.90	
Holland & Daniels, maps . . .	45.00	
Houston & Henderson, shades .	1.70	
Sprague & Hathaway, frame . .	2.27	
Bancroft Bros. & Co., cards . .	247.50	
Dennison Mfg. Co., alphabets . .	2.72	
Sulpho Naphthol Co., sulpho naphthol	3.00	
G. R. Fisk & Co., ribbon	32.17	
Misses Cutler & Dayfoot, piano	30.00	
L. E. Brown, refreshments . . .	59.23	
Alexander McKenzie, address . .	25.00	
D. L. Whitman, address	50.00	
Boston Bank Note Lithograph Co., diplomas	121.05	
C. A. French, filling in diplomas	83.15	
E. S. Daniels, tuning pianos . .	21.00	
<i>Amounts carried forward</i>	\$20,934.63	\$23,851.12

<i>Amounts brought forward</i> .	\$20,934.63	\$23,851.12
John C. Haynes & Co., pitch pipes	13.20	
Lyman B. Rich, biological supplies	1.80	
William Pryor, Jr., biological supplies . . . . .	.79	
Harvard University, examination papers	4.50	
Somerville Journal Co., printing	354.00	
American Printing & Engraving Co., printing	152.50	
Citizen Publishing Co., printing	122.65	
Somerville Citizen Co., printing	112.00	
New Eng. Telephone & Telegraph Co., rentals and tolls .	85.09	
City of Boston, water	297.40	
Cambridge Gaslight Co., gas . .	160.36	
Charlestown Gas & Electric Co., gas	92.08	
First M. E. Church, use of edifice	100.00	
N. W. Turner & Co., hose	3.50	
Hoyt Inspection Co., inspecting meter	7.50	
Eugene Mead, carriage hire	12.00	
J. H. Thompson, carriage hire	3.00	
Charles E. Farnham, expressing	69.55	
E. R. Perham, expressing	1.60	
Glines & Co., expressing . . . . .	.40	
Everett W. Tuttle, disbursements	2.96	
Charles E. Brainard, disbursements	37.88	
S. A. Johnson, disbursements	15.28	
G. M. Wadsworth, disbursements	8.58	
<i>Amounts carried forward</i> .	<u>\$22,593.25</u>	<u>\$23,851.12</u>

<i>Amounts brought forward</i>	\$22,593.25	\$23,851.12
M. J. Wendall, disbursements	1.15	
F. C. Baldwin, disbursements	24.27	
G. E. Nichols, disbursements	10.03	
C. T. C. Whitcomb, disbursements	15.42	
Stella C. Draper, clerical services	7.00	
	<hr/>	
	\$22,651.12	
Schoolhouse Incidentals, amount transferred	1,200.00	
	<hr/>	
		<u>23,851.12</u>

SCHOOL CONTINGENT, JANITORS' SALARIES.

CREDIT.

Appropriations, amount assessed	\$13,000.00
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DEBIT.

Cash, paid janitors' salaries as per pay roll	\$12,805.39
Excess and Deficiency, balance to credit of account	194.61
	<hr/>
	<u>13,000.00</u>

SCHOOL FUEL.

CREDIT.

Appropriations, amount assessed	\$10,000.00
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DEBIT.

Cash, paid B. F. Wild & Co., fuel	\$2,233.22
H. Wellington & Co., fuel	1,733.48
I. L. Smith, fuel	5,994.92
Citizen Publishing Co., advertising	10.56
	<hr/>
<i>Amounts carried forward</i>	<u>\$9,972.18</u>
	<u>\$10,000.00</u>

<i>Amounts brought forward</i> .	\$9,972.18	\$10,000.00
Somerville Journal Co., advertising	3.75	
	<hr/>	
	\$9,975.93	
Excess and Deficiency, balance to credit of account	24.07	
	<hr/>	
		<u>10,000.00</u>

SCHOOLHOUSE, ENGLISH HIGH.

CREDIT.

Appropriations, amount appropriated by borrowing on Funded Debt account	\$7,000.00
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DEBIT.

Cash, paid Wemyss Bros., cabinet work, etc.	\$1,489.00	
A. J. Wilkinson & Co., machinery	1,369.00	
Chandler & Barber, tools, etc.	1,473.98	
John Y. Mainland, laboratory	1,028.30	
The Holtzer, Cabot Electric Co., motors	300.00	
James H. Robertson & Co., shafting	337.73	
Barbour, Stockwell & Co., iron work	13.12	
Charles L. Underhill, iron work	14.55	
Underhill Hardware Co., hardware	25.55	
Somerville Electric Light Co., wiring	200.00	
George W. Gale Lumber Co., lumber	169.26	
Harwood Mfg. Co., chairs	75.00	
	<hr/>	
<i>Amounts carried forward</i> .	\$6,495.49	\$7,000.00

<i>Amounts brought forward</i>	\$6,495.49	\$7,000.00
Boston Gas Appliance Exchange Co., fixtures	6.00	
John H. Pray, Sons & Co., carpet	27.18	
Edward A. Buss, services as expert	14.00	
Charles E. Farnham, expressing . . . . .	.90	
Alfred H. Hines, mason work	5.16	
Sundry Persons, carpenter work, as per pay roll	295.00	
	<hr/>	
	\$6,843.73	
Excess and Deficiency, balance to credit of account	156.27	
	<hr/>	
		<hr/> <hr/> 7,000.00

SCHOOLHOUSE INCIDENTALS.

CREDIT.

Appropriations, amount assessed		\$15,000.00
School Contingent, amount transferred		1,200.00
Cash, received of Home Insurance Co., insurance on Prospect Hill school house	622.66	
Manchester Fire Assurance Co., insurance on Prospect Hill school house	436.66	
Dana W. Bennett & Co., error in pay roll	99.00	
Never-Miss-It Tennis Club, rent School house, Ward Four, furniture	130.59	
	<hr/>	
		1,313.91
Excess and Deficiency, balance to debit of account		3,587.52
<i>Amount carried forward</i>		<hr/> <hr/> \$21,101.43

Amount brought forward \$21,101.43

DEBIT.

Cash, paid laborers as per pay rolls	\$536.40	
Frank A. Fuller & Co., carpentering	2,832.85	
G. F. Matthews, carpentering	1,337.95	
John D. Hill, carpentering	235.25	
T. F. Farrington, carpentering	172.64	
H. S. Brackett, carpentering	124.17	
A. A. Sanborn, steam fitting	496.12	
H. Riley's Sons, roofing	221.70	
L. C. Seavey & Co., roofing	200.28	
Alfred H. Hines, mason work	561.55	
D. P. Bucknam, mason work	112.25	
Henry P. Lovering, Jr., mason work	18.09	
Thomas Dowd, plastering	540.50	
H. F. Bucknam, plastering	102.15	
W. H. Wood & Co., lumber	259.24	
Fred C. Ayer, lumber	14.06	
George W. Gale Lumber Co., lumber	5.19	
I. H. Brown Moulding Co., lumber . . . . .	.25	
Whitney & Snow, hardware	214.20	
W. I. Heald, hardware	224.48	
W. E. Plumber & Co., hardware	223.42	
Shepard & Samuels, hardware	233.79	
Underhill Hardware Co., hardware	221.18	
Charles L. Underhill, iron work	20.95	
R. F. Dimock, iron work	4.30	
Continental Grate Co., grate	47.25	
Blodgett Brothers & Co., electric work	64.57	
Fred W. Merrill, electric work	108.51	
<i>Amounts carried forward,</i>	<u>\$9,133.29</u>	<u>\$21,101.43</u>

<i>Amounts brought forward,</i> . . .	\$9,133.29	\$21,101.43
I. L. Corthell, electric work . . .	102.59	
Pettingill, Andrews & Co., electric work	1.99	
Belyea & Jenkins, electric work	6.45	
F. Bryant & Co., electric work	2.75	
Fred L. Pulsifer, electric work	2.10	
Frank A. Titus, plumbing	803.52	
J. A. Durell, plumbing	524.85	
James Tucker & Sons, plumbing	212.03	
George H. Maynard, plumbing	112.27	
James F. Devlin, plumbing	45.51	
Thomas H. Naughton, plumbing	28.27	
George K. Proctor & Son, plumbing	14.00	
W. L. Snow, plumbing	7.51	
Armstrong Bros., plumbing	23.31	
J. E. Parsons, plumbing	10.93	
Howe & Flint, furnace and stove work	919.69	
J. A. Merrifield, furnace and stove work	184.43	
J. W. Johnson, furnace and stove work	62.45	
Charles A. Holmes, furnace and stove work	3.20	
Fermoyle & Butler, painting	14.30	
W. J. Fermoyle, painting	29.50	
J. Q. Twombly, painting	424.54	
James Rawson, painting	142.09	
E. B. Jones, painting	31.72	
Thomas McAuley, painting	4.00	
Chandler Adjustable Chair & Desk Co., furniture	603.99	
Wemyss Bros. & Co., furniture	324.50	
<i>Amounts carried forward</i>	<u>\$13,775.78</u>	<u>\$21,101.43</u>

<i>Amounts brought forward</i> .	\$13,775.78	\$21,101.43
P. Derby & Co., furniture .	45.00	
Haywood Bros. & Co., furniture	8.75	
W. B. Badger & Co., furniture .	13.50	
Jackson, Caldwell & Co., furniture	4.50	
John H. Pray, Sons & Co., carpets	167.74	
Houston & Henderson, shades .	1.70	
Holland & Daniels, shades .	66.25	
H. A. Pestell, shades	15.90	
Flemming & Co., shades .	14.50	
Murphy, Leavens & Co., brushes	90.39	
W. G. Hallock, brushes	15.00	
George F. Horton & Co., clocks and repairs	71.75	
Frederick R. Cutter, clocks and repairs	44.00	
Fred W. Farrer, clocks and repairs	68.00	
Charles S. Putnam, repairing clocks	7.75	
Boston Spar Co., flag staff .	307.00	
A. Babson, flags	97.40	
O. K. Merry, flags	79.30	
James Martin & Sons, flags .	73.50	
Boston Woven Hose & Rubber Co., hose	10.00	
F. D. Weld, ladder	5.00	
Lothrop, Spooner & Co., polish .	8.00	
E. W. Lerner & Co., disinfectant	27.50	
The Holtzer-Cabot Electric Co., Co., inspecting motor	2.25	
<i>Amounts carried forward</i> .	\$15,020.46	\$21,101.43

<i>Amounts brought forward</i> .	\$15,020.46	\$21,101.43
S. J. Wood, repairing locks .	20.25	
William Hall & Co., repairing locks . . . . .	.50	
George W. Foster, premium of insurance	112.50	
W. W. Coffin, premium of in- surance	75.00	
Arthur T. Hatch, premium of insurance	112.50	
William W. Fish, premium of insurance	75.00	
Willard C. Hill, premium of in- surance	157.50	
O. H. Perry & Co., premium of insurance	150.00	
W. A. Muzzey, premium of in- surance	522.50	
Dana W. Bennett & Co., pre- mium of insurance	198.00	
Stillman H. Libby, premium of insurance	187.50	
A. B. Wedgewood, premium of insurance	138.75	
Charles S. Robertson, premium of insurance	249.00	
Rogers & Streeter, premium of insurance	173.63	
I. B. Kendall, premium of in- surance	130.50	
L. B. Pillsbury, premium of in- surance	56.25	
Thomas Groom & Co., station- ery	11.75	
W. S. Ward, small supplies .	1.92	
W. H. Bullard, small supplies .	6.25	
<i>Amounts carried forward</i> .	<u>\$17,399.76</u>	<u>\$21,101.43</u>

<i>Amounts brought forward</i>	\$17,399.76	\$21,101.43
R. C. Burckes, small supplies	27.78	
R. M. Johnson, moving soil	20.00	
George W. Prichard, dressing	8.00	
Patrick Kelley, repairing fence	4.00	
H. A. Chick, repairing furniture	1.55	
C. H. Dyer, repairing furniture	80.00	
G. F. Ericson, repairing furniture	203.30	
P. Sutherland & Co., oil and waste	53.79	
G. W. Badger, sponges	14.45	
E. & F. King & Co., sponges	8.68	
E. F. Chaffee, sponges	1.70	
Somerville Electric Light Co., electric current	40.85	
Charlestown Gas & Electric Co., gas	125.15	
Cambridge Gaslight Co., gas	237.07	
City of Boston, water	536.30	
R. Dailey, glazing	9.55	
J. S. Berton, glazing	22.00	
T. A. Sallaway, glazing	10.70	
W. J. Logan, glazing	6.00	
C. M. Porter, glazing	1.25	
Elms, Arey & Co., door	2.20	
Kremo Mfg. Co., soap	18.59	
J. E. Bell, repairing blackboards	63.52	
A. M. Prescott, loam	7.50	
George W. Prichard, cinders	6.00	
Thomas Allen, concreting	296.15	
J. H. Thompson, carriage hire	10.00	
M. G. Staples, teaming	25.75	
Glines & Co., expressing	75.38	
E. R. Perham, expressing	17.82	
R. A. R. Benson, expressing	13.50	
<i>Amounts carried forward</i>	\$19,348.29	\$21,101.43

<i>Amounts brought forward,</i>	\$19,348.29	\$21,101.43
McIntire & Co., expressing	3.90	
G. W. Trefren, Jr., carpentering	1.75	
A. M. McPhail Co., piano	50.00	
Hotel Woodbridge, dinners	12.00	
G. F. Hurn & Co., cleaning car-		
pets	17.82	
S. J. Jackson, labor	26.00	
James L. Whitaker, labor	28.20	
W. K. Kennedy, labor	2.50	
F. R. Thomas, labor	4.87	
Alfred F. Shiner, labor	1.50	
James Deacon, labor	13.55	
Norah F. Byard, labor	5.00	
Mrs. E. Allen, labor	15.75	
Mrs. J. L. Babin, labor	17.62	
W. P. Bowdren, labor	61.25	
F. S. Dickinson, labor	75.00	
N. L. Pennock, labor	2.25	
W. H. Kelly, labor	27.44	
A. B. Colesworthy, labor	168.10	
George W. Manning, labor	255.22	
James Houlihan, labor	6.50	
Michael Quinn, labor	6.50	
Mrs. S. B. Rines, labor	15.00	
Alfred Shiner, Jr., labor	1.50	
Eva Colesworthy, labor	4.65	
Bessie McChesney, labor	2.85	
School Contingent, water and		
gas	549.84	
Water Maintenance, repairing		
service pipe	5.90	
Public Grounds, digging trench	5.00	
Sewers Maintenance, pumping		
cellar	4.63	
Highways, edgestones	263.30	
<i>Amounts carried forward</i>	\$21,003.68	\$21,101.43

<i>Amounts brought forward</i>	\$21,003.68	\$21,101.43
Sewer Assessments, sewer	60.00	
Citizen Publishing Co., printing	5.00	
E. T. Peterson, labor	28.50	
John McAuley, iron work	4.25	
	<hr/>	<hr/>
		21,101.43

SCHOOLHOUSE, JACOB T. GLINES, ADDITION.

CREDIT.

Appropriations, amount appropriated by borrowing on Funded Debt account	\$22,000.00
Reduction of Funded Debt, amount transferred	2,000.00
Schoolhouse, Land, Spring Hill District, amount transferred	2,500.00
Excess and Deficiency, balance to debit of account	760.71
	<hr/>
	\$27,260.71

DEBIT.

Cash, paid H. P. Cummings & Co., on account of contract	\$17,360.00
Extras	2,031.93
Magee Furnace Co., contract for heating apparatus	4,970.00
Aaron H. Gould, services as architect	1,236.55
Frank A. Fuller & Co., carpenter work	179.32
Asbestos Paper Co., asbestos covering	143.26
Chandler Adjustable Chair & Desk Co., furniture	809.90
William B. Badger & Co., furniture	116.00
P. Derby & Co., furniture	54.00
Boston Gas Appliance Exchange Co., fixtures	88.40
	<hr/>
<i>Amounts carried forward</i>	\$26,989.36
	<hr/>
	\$27,260.71

<i>Amounts brought forward</i>	\$26,989.36	\$27,260.71
Houston & Henderson, shades	109.77	
Charles S. Robertson, premium of insurance	18.75	
Willard C. Hill, premium of insurance	18.75	
George W. Manning, iron frame	21.25	
Ames Plow Co., truck	3.50	
Frederick R. Cutter, clocks	22.50	
Frank E. Cutter, painting	5.00	
John O'Connell, gas fitting	15.43	
R. C. Burckes, labor	14.22	
Glines & Co., expressing	42.18	
	<hr/>	<hr/>
		27,260.71

SCHOOLHOUSE, LAND, SPRING HILL DISTRICT.

CREDIT.

Appropriations, amount appropriated by borrowing on Funded Debt account	\$3,000.00
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DEBIT.

Schoolhouse, Jacob T. Glines, Addition, amount transferred	\$2,500.00
Balance to credit in account 1897	500.00
	<hr/>
	3,000.00

SCHOOLHOUSE, LAND, WARD THREE.

CREDIT.

Appropriations, amount appropriated by borrowing on Funded Debt account	\$6,000.00
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DEBIT.

Balance to credit in account 1897	6,000.00
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SCHOOLHOUSE, LUTHER V. BELL, HEATING, VENTILATING AND SANITARY APPARATUS.

CREDIT.

Appropriations, amount appropriated by borrowing on Funded Debt account	\$6,500.00
Reduction of Funded Debt, amount transferred	100.00
Cash, received of Lynch & Woodward, repairs of desks	12.50
Excess and Deficiency, balance to debit of account	250.76
	<hr/>
	\$6,863.26

DEBIT.

Cash, paid Lynch & Woodward, on account of contract	\$6,416.00
Extras	18.30
A. A. Sanborn, plans, etc.	328.30
Asbestos Paper Co., asbestos covering	100.66
	<hr/>
	6,863.26

SCHOOLHOUSE, WARD ONE.

CREDIT.

Appropriations, amount appropriated by borrowing on Funded Debt account	\$35,000.00
Cash, received of Jacob W. Wilbur, buildings removed	\$700.00
Margaret A. Brown, buildings removed	375.00
George R. Clark, buildings removed	350.00
L. A. Pennie, buildings removed	12.00
	<hr/>
	1,437.00
<i>Amount carried forward</i>	<hr/>
	\$36,437.00

Amount brought forward \$36,437.00

DEBIT.

Cash, paid Samuel A. Mudgett, land on Webster street	\$3,036.36
Augusta Dickson, land on Webster street	3,327.12
Annie M. Porter, et al., land on Rush street	3,932.89
Edward F. Staples, on account of contract	5,500.00
T. M. Sargent, services as architect	600.00
William J. McCarthy, teaming	943.10
J. A. McLane, bill posting	6.00
Somerville Citizen Co., advertising	8.63
Somerville Journal Co., advertising	9.75
Boston Herald Co., advertising	13.10
F. C. Ayer, lumber	2.55
Watering Streets Assessments, watering	5.28
Engineering Department, services of assistants	30.00
Sewers Construction, superintending foundation	20.00
	<hr/>
	\$17,434.78
Balance to credit in account 1897	19,002.22

36,437.00

SCHOOLHOUSE, WARD FOUR.

CREDIT.

Balance from 1895	\$30,479.78
Appropriations, amount appropriated by borrowing on Funded Debt account	9,000.00
<i>Amount carried forward</i>	<hr/> \$39,479.78

<i>Amount brought forward</i>		\$39,479.78
Cash, received of F. G. Coburn, in- surance, etc.	\$43.00	
Highways, sand	85.00	
	<hr/>	128.00
		<hr/>
		\$39,607.78

DEBIT.

Cash, paid F. G. Coburn & Co., on account of contract	\$27,163.00	
Extras	661.63	
Boston Furnace Co., heating apparatus	4,637.00	
Samuel D. Kelley, services as architect	1,010.00	
F. Bryant & Co., wiring	397.50	
Boston Gas Appliance Ex- change Co., fixtures	98.86	
Asbestos Paper Co., asbestos covering	347.92	
Houston & Henderson, shades	134.56	
Cambridge Gaslight Co., con- necting meter	15.56	
M. P. Canfield, glazing	270.55	
Margaret A. Simpson, sand	84.00	
Frank A. Fuller & Co., carpen- tering	85.13	
Thomas Gordon, carpentering	58.69	
George W. Manning, iron bal- cony	25.00	
W. L. Snow, plumbing	15.83	
W. A. Muzzey, premium of in- surance	28.00	
Chandler Adjustable Chair & Desk Co., furniture	2,078.95	
W. B. Badger & Co., furniture	276.50	
<i>Amounts carried forward</i>	<hr/>	<hr/>
	\$37,388.68	\$39,607.78

<i>Amounts brought forward</i>	\$37,388.68	\$39,607.78
P. Derby & Co., furniture	69.50	
Hayward Bros. & Co., furniture	16.00	
Schoolhouse Incidentals, furniture	130.59	
Highways account, edgestones	661.85	
Page & Co., expressing	2.50	
	<hr/>	
	\$38,269.12	
Fire Department, Fire Station No. 4, Improvement, amount transferred	1,000.00	
Excess and Deficiency, balance to credit of account	338.66	
	<hr/>	
		<u>39,607.78</u>

SCHOOL TEACHERS' SALARIES.

CREDIT.

Appropriations, amount assessed	\$150,000.00
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DEBIT.

Cash, paid salaries as per pay rolls	\$140,096.72
Excess and Deficiency, balance to credit of account	9,903.28
	<hr/>
	<u>150,000.00</u>

SEWER ASSESSMENTS.

CREDIT.

Cash, received of Sundry Persons	\$11,381.38
Sewers Construction, abatements	367.34
Balance to debit in account 1897	14,983.62
	<hr/>
	\$26,732.34

DEBIT.

Balance from 1895	\$4,624.03
Sewers Construction, assessments levied	22,108.31
	<hr/>
	<u>26,732.34</u>

SEWERS.

CREDIT.

Balance from 1895	\$50,000.00
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DEBIT.

Sewers Construction, amount transferred	50,000.00
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SEWERS, CONSTRUCTION.

CREDIT.

Balance from 1895	\$41,791.10
Sewers, amount transferred	50,000.00
Sewer Assessments levied	22,108.31

Cash, received of Joseph S. Stearns, in settlement of damages	\$80.00	
Joseph W. Jordan, permit to enter sewer	80.07	
West End Street Railway Co., one-half cost of sewer	137.50	
Otis Wentworth, permit to drain into Broadway sewer	5.85	
Malcolm McLean, permit to drain into Broadway sewer	13.67	
T. C. Conner, pipe, labor, etc.	86.33	
Sewers Maintenance, materials	28.60	
Sidewalks, edgestones	47.11	
Highways, edgestones	2.54	
Schoolhouse, Ward One, edge- stones	27.30	
		508.97

\$114,408.38

DEBIT.

Cash, paid laborers	\$15,050.01	
David W. Lewis, drain pipe	2,170.78	
George D. Goodrich, drain pipe	1,430.03	
B. R. Felton, drain pipe	1,520.40	
<i>Amounts carried forward</i>	<i>\$20,171.22</i>	<i>\$114,408.38</i>

<i>Amounts brought forward</i>	\$20,171.22	\$114,408.38
Portland Stone Ware Co., drain pipe	745.25	
W. G. Nash, drain pipe	88.10	
M. B. Page, drain pipe	161.48	
Town of Arlington, drain pipe	151.60	
D. Warren DeRosay, bricks	283.04	
W. A. Sanborn, bricks	177.81	
Bay State Brick Co., bricks	701.08	
Berry & Ferguson, cement	1,476.31	
Waldo Brothers, cement	2.60	
Osgood & Hart, castings	585.81	
Barbour, Stockwell & Co., castings	42.50	
Blanchard Machine Co., tide gates	230.00	
Mechanics Iron Foundry Co., castings	676.21	
Chelmsford Foundry Co., beams, plates, etc.	2,602.18	
Edson Mfg. Co., pump, etc.	152.38	
John T. Scully & Bro., pump	170.00	
S. D. Hicks & Son, copper float, etc.	151.75	
Smith, Anthony & Co., brass clean-outs	11.20	
Sweatt & Gould, catch basin stones	20.00	
F. C. Ayer, lumber	879.40	
The Williams Table & Lumber Co., lumber	73.91	
George W. Gale Lumber Co., lumber . . . . .	.90	
I. H. Brown Moulding Co., lumber	34.32	
F. L. Sawyer & Co., lumber	3.25	
<i>Amounts carried forward</i>	<u>\$29,592.30</u>	<u>\$114,408.38</u>

<i>Amounts brought forward</i>	\$29,592.30	\$114,408.38
T. F. Farrington, carpentering	4.20	
Highland Coal Co., coal	3.30	
Horatio Wellington & Co., coal	144.72	
Frank A. Teele, coal	3.65	
Whitney & Snow, tools	204.78	
Perrin, Seamans & Co., tools	85.14	
J. A. Durell, tools	15.39	
Underhill Hardware Co., tools	30.48	
Charles L. Underhill, iron work	111.05	
Seward Dodge, iron work	7.11	
John McBain & Co., iron work	121.45	
Howe & Flint, hardware	20.00	
W. Irving Heald, oil	.38	
W. E. Plumer & Co., wire	.80	
Detroit Graphite Mfg. Co., paint	7.75	
Charles Linnehan, sand	171.00	
John Silk, gravel	46.00	
P. O'Riordan, gravel	20.00	
Everett T. Miers, Agt., use of grindstone	2.50	
Laminar Fibre Co., templets	1.25	
Collins & Richards, hose	18.00	
Cornelius Callahan Co., repairs of hose	.75	
Jacob Bemont, bagging	3.00	
Charles Fine, bagging	1.20	
Stickney & Poor Spice Co., bagging	2.88	
Nathan Tufts & Son, bags	11.00	
John H. McKenna, bags	4.20	
Farley, Harvey & Co., cheese cloth	22.48	
<i>Amounts carried forward</i>	\$30,656.76	\$114,408.38

<i>Amounts brought forward</i>	\$30,656.76	\$114,408.38
Henry M. Woodward, cheese cloth	2.25	
L. R. Stewart, cheese cloth	5.40	
Ernest W. Danforth, cheese cloth	4.00	
George W. Prichard, teaming	241.53	
A. M. Prescott, teaming	671.65	
Nute, Hallett & Co., teaming	41.00	
Youlden, Lawler & Co., teaming	12.00	
T. F. Crimmings, teaming	80.00	
F. W. Gilbert, rubber boots	35.00	
James W. Brine, overalls	1.00	
A. W. Richardson & Son, use of pump	109.50	
G. O. W. Servis, photographs	12.24	
Spaulding Blue Print Paper Co., blue print paper	11.46	
Quimby & Robertson, carpenter work	6.25	
S. J. Wood, repairing tools	14.00	
L. A. Wright, repairing tools	3.20	
City of Cambridge, water	90.52	
Coffin Valve Co., regulator apparatus	279.15	
W. A. Murtfeldt, concreting	1,126.06	
City of Medford, drainage as per contract	1,124.37	
Thomas Groom & Co., books	17.00	
Robert Burlen, binding plans	9.00	
Boston & Maine Railroad, freight	341.10	
Fitchburg Railroad, freight	364.70	
Citizen Publishing Co., advertising	52.50	
<i>Amounts carried forward</i>	<u>\$35,311.64</u>	<u>\$114,408.38</u>

<i>Amounts brought forward</i> .	\$35,311.64	\$114,408.38
Somerville Citizen Co., advertising	13.00	
Somerville Journal Co., advertising	83.00	
Engineering News Publishing Co., advertising	21.80	
A. W. Bryne Construction Co., Tannery Brook Sewer	20,680.00	
A. W. Bryne Construction Co., sewer in private lands and College avenue	663.00	
T. F. Lynch & Co., sewer in Somerville avenue	4,286.44	
H. A. Hanscom & Co., sewer in Mystic avenue, Moreland, E. Albion, Fremont and Meacham streets	4,112.26	
H. A. Hanscom, sewer in Elmwood street	371.82	
H. A. Hanscom, sewer in Gorham street	472.22	
H. A. Hanscom, sewer in Jay street	220.41	
H. A. Hanscom, sewer in Thorndike street	150.63	
Christopher Burke, sewer in Winchester street, Broadway and Cedar street	1,464.91	
Christopher Burke, sewer in Willow avenue and Foscett street	1,542.81	
Christopher Burke, sewer in Wilson avenue	317.99	
<i>Amounts carried forward</i> .	\$69,711.93	\$114,408.38

<i>Amounts brought forward</i> .	\$69,711.93	\$114,408.38
Christopher Burke, sewer in Moreland, Meacham streets and Ash avenue	1,980.18	
Maurice Buttimer, sewer in Mystic avenue	2,268.38	
Maurice Buttimer, sewer in Union street and Mystic ave- nue.	93.87	
Maurice Buttimer, sewer in Cross street	28.46	
Maurice Buttimer, testing ce- ment lining	5.00	
Dennis C. Collins, sewer in Al- bion street	6.77	
Dennis C. Collins, sewer in Lowell street	42.72	
Dennis C. Collins, sewer in Spring Hill terrace	44.35	
Charles A. Mongan, sewer in private lands, Alpine and Princeton streets	798.30	
Charles A. Mongan, sewer in Grant street	6.50	
Charles A. Mongan, sewer in Ibbetson street	62.84	
Charles A. Mongan, sewer in Sycamore street	12.68	
Charles A. Mongan, sewer in— Washington street	37.02	
Charles A. Kelley, sewer in Walnut street	22.38	
Charles A. Kelley, sewer in passageway off Craigie street	10.87	
Charles A. Kelley, sewer in Greenwood terrace	10.90	
Charles A. Kelley, sewer in Winston avenue	144.33	
<i>Amounts carried forward</i> .	<u>\$75,287.48</u>	<u>\$114,408.38</u>

<i>Amounts brought forward</i>	\$75,287.48	\$114,408.38
Charles A. Kelley, sewer in Banks street	19.83	
Charles A. Kelley, sewer in Hanson avenue	128.32	
Charles A. Kelley, sewer in Sycamore and Pembroke streets	352.71	
Charles A. Kelley, sewer in Mystic street	166.07	
John J. Dorey, sewer in Bos- ton avenue, Broadway and Willow avenue	3,790.24	
John J. Dorey, sewer in E. Al- bion street and Ash avenue .	988.19	
John J. Dorey, sewer in Broad- way	234.34	
John J. Dorey, sewer in Fre- mont street	1,218.58	
Richard Falvey, sewer in Mt. Vernon avenue	12.04	
Richard Falvey, sewer in E. Al- bion street	249.54	
Richard Falvey, sewer in Mys- tic avenue and Fremont street	1,229.60	
Richard Falvey, sewer in Cam- eron avenue	420.25	
Richard Falvey, sewer in Glen- dale avenue	190.91	
Richard Falvey, sewer in Mal- vern avenue	191.53	
Richard Falvey, sewer in York- town street	288.98	
Richard Falvey, sand	10.70	
<i>Amounts carried forward</i>	<u>\$84,779.31</u>	<u>\$114,408.38</u>

<i>Amounts brought forward</i> .	\$84,779.31	\$114,408.38
William F. Cunningham, sewer passageway off Broadway .	135.88	
T. C. Connor, sewer in Cottage circle	13.32	
Joseph S. Stearns, land damages	700.00	
A. W. Bryne, use of engine .	43.00	
D. Henry Cram, use of derrick	88.66	
Alice E. Cram, use of derrick .	91.58	
G. W. W. Whiting, professional services	10.00	
W. A. & G. E. Taylor, rent .	20.00	
Kenneth McRae, rent . . .	40.00	
George E. Sherry, disburse- ments	1.30	
Maurice F. Delano, disburse- ments	1.60	
Edgar H. Hunter, disburse- ments	4.65	
Edward I. Marvel, disburse- ments	5.80	
Ernest W. Bailey, disburse- ments	34.64	
John S. Hodgson, disburse- ments	9.44	
Glines & Co., expressing .	1.15	
Water Maintenance, labor and materials	207.08	
Highways, teaming	28.80	
Sewers, Maintenance, hose .	15.00	
Sewer Assessments, assessments abated	367.34	
	<hr/>	
	\$86,598.55	
Balance to credit in account 1897	27,809.83	
	<hr/>	
		<u>\$114,408.38</u>

SEWERS, MAINTENANCE.

CREDIT.

Appropriations, amount assessed		\$7,000.00
Reduction of Funded Debt, amount transferred		1,500.00
Cash, received of James Doran, permit to enter Elm street sewer	\$40.00	
B. T. Skelton, permit to enter Elm street sewer	34.00	
West End Street Railway Co., labor and materials	190.75	
T. C. Connor, repairs of sewer in Dresden circle	4.75	
Lydia A. Longley, repairs of sewer in Oak street	2.76	
Elizabeth Ann Ford, et al., repairs of sewer in Oak street	2.76	
Mary A. Harriman, repairs of sewer in Oak street	2.76	
Caroline White, repairs of sewer in Oak street	2.76	
Sarah W. Godfrey, repairs of sewer in Oak street	5.34	
George Spencer, repairs of sewer in Oak street	6.49	
Catherine Stahle, repairs of sewer in Oak street	6.49	
George A. McKinnon, repairs of sewer in Oak street	6.49	
S. Adams Clark, repairs of sewer in Oak street	8.91	
Francesco L. Fagundez, et al., repairs of sewer in Oak street	12.96	
Louisa and Clara E. Matchett, repairs of sewer in Oak street	10.53	
Augustus Myers, repairs of sewer in Oak street	2.76	
<i>Amounts carried forward</i>	<i>\$340 51</i>	<i>\$8,500.00</i>

<i>Amounts brought forward</i> .	\$340.51	\$8,500.00
Mildram & Reed, old junk .	10.86	
L. R. Wentworth and E. T. Bosson, "Trs.," dividend on bill for labor	7.80	
Charles Linnehan, bill previously paid . . . .	.50	
Schoolhouse Incidentals, labor and materials	4.63	
Water Maintenance, labor and materials	9.76	
Highways, Paving Washington street, Joy to Tufts street, labor and materials . .	15.00	
Sewers, Construction, hose .	15.00	
	<hr/>	404.06
		<hr/>
		\$8,904.06

DEBIT.

Cash, paid laborers	\$3,888.45	
A. M. Prescott, teaming . .	1,388.75	
David W. Lewis, drain pipe .	31.28	
George D. Goodrich, drain pipe	13.96	
W. A. Sanborn, bricks . . .	46.45	
D. Warren DeRosay, bricks .	7.60	
Sweatt & Gould, stone . . .	10.00	
Charles Linnehan, sand . . .	2.50	
John Silk, sand	1.50	
W. G. Nash, cement	22.76	
Horatio Wellington & Co., fuel	5.50	
Underhill Hardware Co., tools	7.60	
Boston Rod Coupling Co., tools	25.50	
Howe & Flint, tools	9.00	
S. J. Wood, repairing tools .	1.25	
Whitney & Snow, hardware .	42.47	
Charles L. Underhill, hardware	16.70	
	<hr/>	
<i>Amounts carried forward</i> .	\$5,521.27	\$8,904.06

<i>Amounts brought forward</i> .	\$5,521.27	\$8,904.06
Seward Dodge, blacksmithing .	4.00	
Henry M. Woodward, repairs of tools	2.55	
John McCarthy, use of grind- stone	3.00	
John M. Woods & Co., lumber	6.82	
F. C. Ayer, lumber	3.07	
The Williams Table & Lumber Co., lumber	21.42	
T. F. Farrington, carpentering	3.50	
I. H. Brown Moulding Co., castings	2.04	
Boston Woven Hose & Rubber Co., hose	44.54	
Edson Mfg. Co., hose	19.05	
Cornelius Callahan, hose	3.25	
Thomas Groom & Co., books	17.00	
City of Boston, water	40.00	
Patrick Burke, repairing sewer	7.00	
Franklin O. Reed, compensa- tion for damages	2,212.50	
Franklin O. Reed, rent of water course for drainage	225.00	
Charles E. Farnham, express- ing . . . . .	.60	
F. W. Gilbert, rubber boots, etc.	50.00	
Ernest W. Danforth, disburse- ments	22.50	
Edgar H. Hunter, disburse- ments . . . . .	.60	
George I. Shedd, disbursements	4.85	
Sewers, Construction, materials	28.60	
	<hr/>	
	\$8,243.16	
Excess and Deficiency, balance to credit of account	660.90	
	<hr/>	
		<hr/> <hr/> \$8,904.06

SIDEWALKS.

CREDIT.

Appropriations, amount assessed	\$10,000.00
Sidewalk Assessments, assessments levied	9,640.79
	<hr/>
	\$19,640.79

DEBIT.

Cash, paid laborers	\$4,718.18
S. & R. J. Lombard, edgestones	8,926.96
W. A. Sanborn, bricks	3,583.50
Portland Stone Ware Co., cement	2.25
Citizen Publishing Co., advertising	121.00
Somerville Journal Co., advertising	129.75
Highways, labor, teaming and materials	1,700.96
Printing and Stationery, advertising	54.00
Sewers, Construction, edgestones	54.41
	<hr/>
	\$19,291.01
Highways, amount transferred	349.78
	<hr/>
	19,640.79

SIDEWALK ASSESSMENTS.

CREDIT.

Cash, received of Sundry Persons	\$10,500.70
Balance to debit in account 1897	4,535.56
	<hr/>
	\$15,036.26

DEBIT.

Balance from 1895	\$5,395.47
Sidewalks, assessments levied	9,640.79
	<hr/>
	15,036.26

STATE AID.

CREDIT.

State of Massachusetts, amount paid in 1896 charged to State	\$8,338.00
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DEBIT.

Cash, paid monthly pay rolls	8,338.00
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STATE OF MASSACHUSETTS.

CREDIT.

Appropriations, amount appropriated	\$30,205.00
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DEBIT.

Cash, paid State Treasurer, State Tax	30,205.00
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STATE OF MASSACHUSETTS, NON-RESIDENT BANK STOCK.

CREDIT.

Appropriations, amount assessed	\$889.35
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DEBIT.

Cash, paid State Treasurer, amount collected on non-resident stock	\$889.35
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STATE OF MASSACHUSETTS, BURIAL OF INDIGENT SOLDIERS AND SAILORS.

CREDIT.

Cash, received of State Treasurer for burials in 1895	\$280.00
Balance, Dec. 31, 1896, due from State Dec. 10, 1897	315.00
	<hr/>
	\$595.00

DEBIT.

Balance from 1895	\$280.00
Relief and Burial of Indigent Sol- diers and Sailors, amount paid for burials in 1896	315.00
	<hr/>
	595.00

STATE OF MASSACHUSETTS, INDIGENT SOLDIERS
AND SAILORS.

CREDIT.

Cash, received of State Treasurer	\$324.00
Balance, Dec. 31, 1896, due from State Dec. 10, 1897	236.00
	<hr/>
	\$560.00

DEBIT.

Balance from 1895	\$310.00
Indigent Soldiers and Sailors, one- half of amount paid in 1896	250.00
	<hr/>
	560.00

STATE OF MASSACHUSETTS, STATE AID.

CREDIT.

Cash, received of State Treasurer	\$7,444.50
Balance, Dec. 31, 1896, due from State Dec. 10, 1897	8,214.00
	<hr/>
	\$15,658.50

DEBIT.

Balance from 1895	\$7,320.50
State Aid, amount paid in 1896	8,338.00
	<hr/>
	15,658.50

STREET LIGHTS.

CREDIT.

Appropriations, amount assessed	\$47,000.00
Cash, received of Globe Gaslight Co., lamp posts	27.40
Excess and Deficiency, balance to debit account	182.15
	<hr/>
	\$47,209.55

DEBIT.

Cash, paid Somerville Electric Light Co., lighting	\$47,087.60
Changing location	33.00
	<hr/>
<i>Amounts carried forward</i>	\$47,120.60
	<hr/>
	\$47,209.55

<i>Amounts brought forward</i>	\$47,120.60	\$47,209.55
Thomas McNee, moving posts	8.25	
A. M. Prescott, teaming	4.50	
M. G. Staples, teaming	4.00	
Thomas W. Gleeson, electric work	13.80	
The New Eng. Gamewell Co., instruments	50.00	
Boston Woven Hose & Rubber Co., lanterns	4.00	
L. H. Brown, carriage hire	2.50	
Edward Backus, car fares	1.90	
		<u>47,209.55</u>

SUNDRY PERSONS.

CREDIT.

Balance from 1895		\$940.10
Interest, coupons not paid		1,100.00
Water Loan Interest, coupons not paid		80.00
Cash, due Heirs of Robert A. Vinal, for land damages, on account of the construction of a sewer in Lowell, Woodbine and Centre streets	\$20.00	
Due Barbara W. Cotton, for land damages, on account of the construction of a sewer in Francesca avenue	100.00	
William N. McCrillis, amount held pending the settlement of a trustee suit	13.50	
Architectural Wood Working Co., amount held pending the settlement of a trustee suit	24.21	
		<u>157.71</u>
<i>Amount carried forward</i>		\$2,277.81

Amount brought forward . . . \$2,277.81

DEBIT.

Cash, paid Sundry Persons, amounts due them	\$905.00	
Balance to credit in account 1897	1,372.81	
	<hr/>	2,277.81

SUPPORT OF POOR.

CREDIT.

Appropriations, amount assessed		\$17,150.00
Cash, received for support of paupers:—		
Of State of Massachusetts	\$1,003.89	
Of City of Boston	706.63	
Of City of Cambridge	286.03	
Of City of Gloucester	3.00	
Of City of Lawrence	12.55	
Of City of Lynn	4.03	
Of City of Malden	25.90	
Of City of Newton	38.25	
Of City of Salem	10.00	
Of City of Worcester	22.90	
Of City of Waltham	17.20	
Of Town of Canton	2.98	
Of Town of Danvers	8.00	
Of Town of Lexington	98.25	
Of Town of North Andover	152.17	
Of Town of Revere	135.81	
Of Town of Stoneham	52.31	
Charles I. Davis, aid furnished	169.93	
Henry Jans, aid furnished	186.63	
Richard Moore, aid furnished	97.50	
Frank W. Kaan, Guardian, aid furnished	84.03	
<i>Amounts carried forward,</i>	<hr/> \$3,117.99	<hr/> \$17,150.00

<i>Amounts brought forward</i> .	\$3,117.99	\$17,150.00
William H. Berry, aid furnished	84.97	
James L. Tyler, aid furnished .	29.25	
Edward and Ellena J. Peltier, aid furnished	28.32	
Francis Carlin, aid furnished .	12.30	
Charles Mooney, aid furnished	13.50	
Paul Kelley, aid furnished .	3.00	
Cornelius Curran, aid furnished	4.00	
Daniel McNeil, aid furnished .	15.00	
Timothy Fitzpatrick, aid furnished	3.00	
Sundry Persons, money not called for	35.53	
	<hr/>	3,346.86
Excess and Deficiency, balance to debit of account		1,502.93
		<hr/>
		\$21,999.79

DEBIT.

Cash, paid State of Massachusetts, support of paupers	\$1,464.34	
Massachusetts School for the Feeble-minded	552.49	
Massachusetts Hospital for Dipsomaniacs	436.36	
Worcester Lunatic Hospital .	2,670.11	
Worcester Insane Asylum .	1,019.58	
Danvers Lunatic Hospital .	1,033.95	
Taunton Lunatic Hospital .	311.06	
Boston Lunatic Hospital .	42.71	
Boston Lying-in Hospital .	10.00	
Boston Insane Hospital .	127.21	
Westboro Insane Hospital .	681.11	
Medfield Insane Hospital .	488.00	
<i>Amounts carried forward</i> .	<hr/> \$8,836.92	<hr/> \$21,999.79

<i>Amounts brought forward</i>	.	\$8,836.92	\$21,999.79
Somerville Hospital	. . .	721.58	
City of Boston	. . .	1,151.15	
City of Chelsea	. . .	54.25	
City of Cambridge	. . .	453.18	
City of Lowell	. . .	145.43	
City of Malden	. . .	462.91	
City of Newton	. . .	49.00	
City of North Adams	. . .	24.00	
Town of Gardner	. . .	23.96	
Town of Raynham	. . .	105.43	
Town of Revere	. . .	157.37	
Town of Peabody	. . .	432.40	
Town of Barre	. . .	105.49	
Mary Burke, rent	. . .	24.00	
John Murphy, rent	. . .	84.00	
Ellen Driscoll, rent	. . .	48.00	
Ellen Halloran, rent	. . .	60.00	
A. E. Viles, executor, rent	. . .	72.00	
Elizabeth Morrison, rent	. . .	84.00	
James Ambrose, rent	. . .	84.00	
Idella Taylor, rent	. . .	53.85	
Ellen Welch, rent	. . .	9.00	
Mary Gallagher, rent	. . .	12.00	
Mrs. E. Wilcomb, board	. . .	153.69	
Mrs. Preston Cheney, board	. . .	127.21	
Mrs. George Clapp, board	. . .	127.21	
Hannah M. Mayo, board	. . .	169.91	
Mrs. W. H. Johnson, board	. . .	114.66	
Catherine Hargrove, board	. . .	53.16	
Mrs. John T. Hayes, board	. . .	120.00	
Mary Curran, board	. . .	96.00	
Mrs. N. C. Desmond, board	. . .	43.21	
Mrs. Julia Herbert, board	. . .	12.00	
Mary Burns, board	. . .	5.00	
Frank D. Weld, board	. . .	21.78	
<i>Amounts carried forward</i>	.	<u>\$14,297.75</u>	<u>\$21,999.79</u>

<i>Amounts brought forward</i>	\$14,297.75	\$21,999.79
Kurn Hatten Homes, board	150.00	
Susan McDonald, board	80.00	
Josiah L. Boston, board	26.14	
Mary A. Burgess, board	30.00	
Adaline D. Brodeur, board	16.57	
Elizabeth E. Remington, board	15.42	
Mary Fitzgerald, board	6.00	
Mary Dugan, board	20.00	
Horatio Wellington & Co., fuel	642.85	
F. W. Gilbert, boots and shoes	82.40	
Philip Eberle, boots and shoes	10.00	
J. H. Morgan, boots and shoes	7.00	
J. H. Brooks, dry goods	11.63	
J. W. Brine, dry goods	6.35	
F. A. Higgins, crockery	1.41	
J. C. McLean, bed	2.50	
W. S. Ward, groceries and provisions	505.00	
Sawyer & Read, groceries and provisions	350.00	
Medford St. Market, groceries and provisions	58.00	
James Bartley, groceries and provisions	217.30	
A. F. Carpenter, groceries and provisions	140.82	
R. M. Sturtevant, groceries and provisions	490.91	
W. H. Bullard, groceries and provisions	215.93	
E. R. Lovell & Co., groceries and provisions	235.00	
W. P. Blanchard, groceries and provisions	134.00	
<i>Amounts carried forward</i>	<u>\$17,752.98</u>	<u>\$21,999.79</u>

<i>Amounts brought forward</i> .	\$17,752.98	\$21,999.79
Charles S. Butters, groceries and provisions	83.00	
C. A. Small & Co., groceries and provisions	105.50	
N. R. Barrows, groceries and provisions	166.50	
D. E. Watson, groceries and provisions	22.50	
Christopher Brothers, grocer- ies and provisions	28.00	
F. E. Robie & Son, groceries and provisions	88.00	
Lingley & Brown, groceries and provisions	6.00	
A Fisk, crackers	49.67	
C. H. Titus, milk	6.44	
Thomas Groom & Co., station- ery	8.00	
W. A. Greenough, directory .	2.00	
Somerville Journal Co., print- ing	7.50	
New Eng. Telephone & Tele- graph Co., rentals and tolls .	87.51	
Howard Lowell & Son, carriage hire	2.50	
L. H. Brown, carriage hire .	19.50	
George E. Lowell, carriage hire	8.00	
M. G. Staples, expressing .	2.00	
Alfred E. Mann, services as un- dertaker	51.00	
Paul J. McMahon, services as undertaker	15.00	
John J. Crimmins, services as undertaker	10.00	
William A. Flaherty, services as undertaker	10.00	
<i>Amounts carried forward</i> .	<u>\$18,531.60</u>	<u>\$21,999.79</u>

<i>Amounts brought forward</i> . .	\$18,531.60	\$21,999.79
G. F. McKenna, services as undertaker	15.00	
P. H. Rafferty, services as undertaker	15.00	
Ann H. Sawin, board . .	30.44	
Smith Premier Typewriter Co., typewriter	96.75	
C. C. Folsom, salary as agent .	1,500.00	
Disbursements	157.25	
A. B. Dearborn, salary as city physician	1,150.00	
Disbursements	3.75	
Cora F. Lewis, salary as secretary	500.00	
	<hr/>	21,999.79

TAXES.

CREDIT.

Cash, received for taxes of 1890 .	\$53.40	
“ “ “ “ 1891 .	65.20	
“ “ “ “ 1892 .	160.50	
“ “ “ “ 1893 .	358.15	
“ “ “ “ 1894 .	40,850.04	
“ “ “ “ 1895 .	111,897.18	
“ “ “ “ 1896 .	574,218.84	
	<hr/>	\$727,603.31
Real Estate Liens, titles to the city for non-payment of taxes of 1894	\$477.28	
Real Estate Liens, titles to the city for non-payment of taxes of 1895	157.08	
	<hr/>	\$634.36
<i>Amount carried forward</i>		\$728,237.67

Amount brought forward . . . \$728,237.67

Overlay and Abatement:—

Abatements on taxes of 1890 .	\$5,171.40	
“ “ “ “ 1891 .	4,906.80	
“ “ “ “ 1892 .	5,289.00	
“ “ “ “ 1893 .	41.25	
“ “ “ “ 1894 .	300.88	
“ “ “ “ 1895 .	257.74	
“ “ “ “ 1896 .	4,128.34	
	<hr/>	\$20,095.41

Balance to debit in account 1897:—

Being uncollected taxes of 1889	\$46.60	
“ “ “ “ 1890	7,220.20	
“ “ “ “ 1891	70.80	
“ “ “ “ 1892	321.00	
“ “ “ “ 1893	6,866.15	
“ “ “ “ 1894	7,403.01	
“ “ “ “ 1895	54,281.40	
“ “ “ “ 1896	208,065.14	
	<hr/>	284,274.30
		<hr/>
		\$1,032,607.38

DEBIT.

Balance from 1895 . . .	\$246,195.06	
Appropriations, amount assessed for current expenses . . .	690,100.00	
State of Massachusetts, amount assessed for State Tax . . .	30,205.00	
State of Massachusetts, amount assessed on Non-resident Na- tional Bank Stock . . .	889.35	
County of Middlesex, amount assessed for County Tax . . .	43,327.63	
Overlay and Abatement, amount added by the assessors . . .	21,890.34	
	<hr/>	\$1,032,607.38

TEMPORARY LOANS.

CREDIT.

Balance from 1895		\$175,000.00
Cash, borrowed by authority of the City Council, on notes as fol- lows:—		
Boston Five Cents Savings Bank, six months, $4\frac{1}{2}$ per cent.	\$25,000.00	
F. S. Moseley & Co., four months, $4\frac{3}{8}$ per cent.	175,000.00	
Estabrook & Co., six months, $3\frac{5}{8}$ per cent.	50,000.00	
Blake Brothers & Co., four months, 3.80 per cent.	50,000.00	
F. S. Moseley & Co., seventy- three days, 5 per cent.	176,774.31	
Charlestown Five Cents Savings Bank, on demand, 6 per cent.	50,000.00	
Blake Brothers & Co., two months, 6 per cent.	45,000.00	
Blake Brothers & Co., three months and twelve days, 6 per cent.	30,000.00	
Blake Brothers & Co., three months, 6 per cent.	25,000.00	
Blake Brothers & Co., four months, 6 per cent.	75,000.00	
F. S. Moseley & Co., three months, $3\frac{1}{4}$ per cent.	225,000.00	
	<hr/>	926,774.31
		<hr/>
		\$1,101,774.31

DEBIT.

Cash, paid as follows:—

F. S. Moseley & Co., twelve months, 3.9 per cent.	175,000.00	
<i>Amounts carried forward</i>	\$175,000.00	\$1,101,774.31

<i>Amounts brought forward</i> .	\$175,000.00	\$1,101,774.31
New England Trust Co., four months, $4\frac{3}{8}$ per cent. . . .	175,000.00	
F. S. Moseley & Co., seventy-three days, 5 per cent. . . .	176,774.31	
Blake Brothers & Co., four months, 3.8 per cent. . . .	50,000.00	
The Boston Five Cents Savings Bank, six months, $4\frac{1}{2}$ per cent.	25,000.00	
Estabrook & Co., six months, $3\frac{5}{8}$ per cent.	50,000.00	
Blake Brothers & Co., three months, 6 per cent.	45,000.00	
Charlestown Five Cents Savings Bank, on demand, 6 per cent.	50,000.00	
Blake Brothers & Co., three months and twelve days, 6 per cent.	30,000.00	
Blake Brothers & Co., three months, 6 per cent.	25,000.00	
	<hr/>	
	\$801,774.31	
Balance to credit in account 1897	300,000.00	
	<hr/>	
		<u>1,101,774.31</u>

WATER LOAN INTEREST.

CREDIT.

City of Boston Water Rates, amount transferred . \$13,612.50

DEBIT.

Cash, paid on Water Loan debt:—

\$241,000, one year, at 4 per cent.	\$9,640.00
\$13,000, six months, at 4 per cent.	260.00

<i>Amounts carried forward</i> .	\$9,900.00	\$13,612.50
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<i>Amounts brought forward,</i>	\$9,900.00	\$13,612.50
\$57,000, one year, at 5 per cent.	2,850.00	
\$12,500, six months, at 5 per cent.	312.50	
\$10,000, one year, at $5\frac{1}{2}$ per cent.	550.00	
	<hr/>	
	\$13,612.50	
Less coupons unpaid	80.00	
	<hr/>	
	\$13,532.50	
Sundry Persons, unpaid coupons	80.00	
	<hr/>	
		13,612.50

WATER MAINTENANCE.

CREDIT.

Balance from 1895		\$2,974.50
City of Boston, Water Rates, amount transferred		60,000.00
Water Services, amount transferred		1,698.41
Cash, received of Sundry Persons		
turning off and on water	\$123.00	
T. S. Remick, manure	7.00	
Charlestown Gas Co., iron bend	5.10	
William A. Muzzey, pipe	31.60	
Thomas F. Casey, pipe	14.35	
Fay Brothers, pipe	9.90	
E. D. Lacount, pipe and fittings	18.70	
M. W. Carr & Co., pipe, fittings, etc.	72.19	
N. E. Dressed Meat & Wool Co., pipe, fittings, etc.	21.31	
George W. Norton, pipe, fittings, etc.	9.95	
Howe & Flint, pipe, fittings, etc.	4.67	
	<hr/>	
<i>Amounts carried forward</i>	\$317.77	\$64,672.91

<i>Amounts brought forward</i> .	\$317.77	\$64,672.91
Howe Brothers, pipe, fittings, etc.	16.05	
W. E. Shannon, pipe, fittings, etc.	45.12	
North Packing & Provision Co., pipe, fittings, etc.	600.45	
M. W. Blaney, pipe, fittings, etc.	8.90	
Braman, Dow & Co., pipe, fit- tings, etc.	11.53	
Arlington Water Works, fit- tings	18.60	
William Veazie, fittings	1.50	
A. M. Higgins, fittings	1.00	
J. F. Davlin, fittings	2.00	
George E. Carr, fittings	5.00	
Tucker & Sons, fittings	8.60	
Irving L. Russell, fittings . . . . .	.70	
Town of Winchester, fittings	6.75	
Boston & Maine Railroad, fit- tings	68.38	
John P. Squire Co. Corporation, hydrant, etc.	54.50	
Commonwealth of Massachu- setts, service pipe	15.00	
Mary I. Wentworth, service pipe	23.20	
Edward Cox, service pipe	18.20	
L. L. Tower, service pipe	18.30	
Lawrence F. Meaney, replacing service pipe	11.30	
T. F. Crimmings, replacing ser- vice pipe	13.55	
W. F. Edlefson, replacing ser- vice pipe	25.90	
<i>Amounts carried forward</i> .	<u>\$1,292.30</u>	<u>\$64,672.91</u>

<i>Amounts brought forward</i> .	\$1,292.30	\$64,672.91
J. A. Durell, replacing service pipe	22.70	
H. O. Titus, replacing service pipe	21.35	
W. F. Mansfield, replacing service pipe	3.00	
Charles S. Alley, replacing service pipe	10.85	
Samuel Baker, replacing service pipe	4.56	
Frank Buttimer, replacing service pipe	13.25	
A. H. Hines, service pipe .	27.35	
J. H. Aubin, extending service pipe	5.60	
John Stackpole, extending service pipe	5.20	
Aaron H. Gould, extending service pipe	4.20	
Henry Arnold, extending service pipe	9.16	
Walter F. Sawyer, extending service pipe	9.80	
H. S. Pond, labor	9.10	
James Heath & Son, damage to pipe	73.27	
H. W. Covell, bill entered twice	3.67	
Schoolhouse Incidentals, service pipe	5.90	
Sewers Construction, pipe, labor, etc.	207.08	
Public Grounds, pipe, labor, etc.	133.03	
<i>Amounts carried forward</i> .	<u>\$1,861.37</u>	<u>\$64,672.91</u>

<i>Amounts brought forward</i>	\$1,861.37	\$64,672.91
Highways, Paving Washington street, Joy to Tufts street, pipe, labor, etc.	11.25	
Highways, lead	2.55	
Water Works Extension, stock	7,040.77	
Water Service, stock	1,999.77	
	<hr/>	10,915.71
		<hr/>
		\$75,588.62

DEBIT.

Cash, paid laborers	\$24,367.44	
Nathaniel Dennett, salary as superintendent	1,500.00	
Disbursements	27.03	
F. E. Merrill, salary as clerk	1,100.00	
Disbursements	26.90	
S. E. Hayden, salary as engineer	1,100.00	
Nathan Tufts & Sons, hay and grain	277.88	
G. F. & S. E. Sturtevant, hay and grain	83.61	
Fulton O'Brion, hay and grain	73.10	
J. F. Ham, hay and grain	131.06	
Seward Dodge, blacksmithing	207.81	
F. Dooris, blacksmithing	146.11	
Charles L. Underhill, blacksmithing	62.10	
John Rooney, blacksmithing	81.03	
Ira L. Roberts, blacksmithing	4.00	
L. A. Wright, blacksmithing . . . . .	.80	
David W. Crocker, repairs of wagons	16.00	
Allen & Griffin, repairs of wagons	23.20	
R. B. Baker, repairs of wagons	34.20	
<i>Amounts carried forward</i>	<hr/> \$29,262.27	<hr/> \$75,588.62

<i>Amounts brought forward</i>	\$29,262.27	\$75,588.62
Frank W. Leavitt, repairs of wagons	63.25	
Edward O'Brien, horseshoeing	23.26	
Charles Maguire, horseshoeing	33.00	
R. Boylston Hall, horseshoeing	25.00	
D. J. Bennett, harness work	13.50	
E. Spalding, harness work	96.10	
John Cutter, harness work	5.25	
James Forgie & Son, harness work	18.33	
J. W. Colgan, harness work	1.50	
Hill & Hill, harness work	6.12	
Underhill Hardware Co., hard- ware	8.10	
Howe & Flint, hardware	13.27	
W. E. Plumer & Co., hardware	173.39	
Whitney & Snow, hardware	20.04	
Waldo Brothers, cement	104.30	
Globe Gaslight Co., tools	1.05	
Joseph Breck & Sons, tools	3.13	
Perrin, Seamans & Co., tools	44.25	
H. H. Harvey, tools	56.82	
Baldwin, Robinson Co., tools	126.41	
W. I. Heald, tools	.84	
A. J. Wilkinson & Co., tools	2.07	
Crescent Tool Co., tools	24.80	
Miller & Shaw, repairs of tools	41.40	
S. J. Wood, repairs of tools	12.25	
Charles River Iron Works, re- pairs of tools	12.30	
Horatio Wellington & Co., coal	60.73	
Dominion Coal Co., Limited, coal	1,083.75	
B. F. Wild & Co., coal	192.94	
John McCarthy, charcoal	11.55	
<i>Amounts carried forward</i>	\$31,540.97	\$75,588.62

<i>Amounts brought forward</i>	\$31,540.97	\$75,588.62
George C. Emerson, wood	15.80	
H. C. Abbott, wood	28.60	
Charles Booth, wood	3.00	
Thomas Hollis Co., sponges	7.80	
C. H. Paine, horse medicine	4.00	
Charles R. Simpson, veterinary services	16.50	
Alden Spears Sons & Co., oil	7.39	
William F. Low, oil	59.95	
P. H. Sutherland, oil	5.00	
New England Oil Co., oil	27.00	
Warren B. Plimpton, oil	2.15	
Francis S. Brown, tarine	2.00	
Elias Lathrop, ointment	4.00	
W. A. Morrison, packing	17.70	
Frank E. Fitts Mfg. & Supply Co., waste	9.43	
James Bartley, soap	13.63	
Charles L. Davenport, salt	10.00	
Kimball Mfg. Co., boxes	1.00	
J. Baker & Co., rope	17.02	
W. A. Holmes, rope	.85	
John T. Sellon, glazing	8.25	
C. C. Folsom, glazing	1.35	
Frank A. Titus, radiator	7.70	
George H. Sampson, powder	52.85	
David Cutter, clock work	2.00	
Norwood Engineering Co., repairs of hydrants	5.50	
Boston Belting Co., hose connection	7.84	
Frost & Adams, stationery	2.54	
F. W. Barry, Beale & Co., stationery	12.35	
S. M. Spencer & Co., stationery	1.38	
<i>Amounts carried forward</i>	\$31,895.55	\$75,588.62

<i>Amounts brought forward</i> .	\$31,895.55	\$75,588.62
Thomas Groom & Co., station- ery	65.75	
The Smith Premier Typewriter Co., stationery	2.45	
American Printing & Engraving Co., printing	15.50	
W. A. Greenough & Co., direc- tory	2.00	
Sampson, Murdock & Co., di- rectory	2.00	
A. L. Haskell, directories	1.00	
J. H. H. McNamee, binding	2.25	
Esau Cooper, horse	150.00	
Fresh Pond Ice Co., ice	8.58	
Cambridge Ice Co., ice	8.00	
City of Boston, water	25.20	
Somerville Electric Light Co., lighting	36.00	
Cambridge Gaslight Co., gas	28.76	
New Eng. Telephone & Tele- graph Co., rentals and tolls	282.29	
H. C. Garcelon, use of telephone	4.80	
Boston & Lockport Block Co., blocks	6.75	
Star Brass Mfg. Co., repairs of gauge	5.40	
George G. Goodrich, drain pipe	37.79	
Boston Lead Mfg. Co., lead	3,149.95	
Michigan Brass & Iron Works, hydrant	37.50	
Chapman Valve Mfg. Co., hy- drants	1,643.28	
Fairbanks Co., valves	41.68	
Walworth Construction & Sup- ply Co., valve	2.48	
<i>Amounts carried forward</i> .	\$37,454.96	\$75,588.62

<i>Amounts brought forward</i>	\$37,454.96	\$75,588.62
Braman, Dow & Co., fittings	2,678.26	
Standard Brass Co., fittings	547.21	
D'Este & Seeley, fittings	24.00	
George E. Gilchreast, fittings	298.56	
Osgood & Hart, castings	925.18	
Somerville Iron Foundry, castings	853.79	
Davis & Farnham Mfg. Co., castings	4,664.69	
Hall Brothers, castings	104.35	
R. D. Wood & Co., iron pipe	14,493.59	
McNeal Pipe & Foundry Co., pipe	8,224.17	
Sumner & Goodwin, pipe	197.75	
Walworth Mfg. Co., pipe	394.05	
City of Cambridge, pipe	23.12	
Jaques Brothers & Co., pattern work	41.30	
Peet Valve Co., gates	1,286.75	
Andrew J. Morse & Sons, gate	13.00	
Smith & Anthony Co., bands	6.90	
Boston Woven Hose & Rubber Co., conductors	119.45	
Sewall & Day Cordage Co., packing	132.04	
Henry R. Worthington, valve rod	.94	
Holyoke Hydrant & Iron Works Co., repairs of hydrant	225.37	
C. J. Crowley, painting pumps	60.27	
George W. Prime, painting hydrants	101.55	
John P. Wahlstrom & Son, painting stand pipe	65.00	
<i>Amounts carried forward</i>	<u>\$72,936.25</u>	<u>\$75,588.62</u>

<i>Amounts brought forward</i>	\$72,936.25	\$75,588.62
James Russell Boiler Works		
Co., caulking stand pipe	423.80	
C. Casseau, painting wagon	42.75	
J. Q. Twombly, paint	18.14	
Robert W. Neff, paint	25.90	
J. H. Fletcher, tool boxes	22.50	
Henry C. Hunt Co., leather	13.50	
A. A. Elston & Co., lumber	7.04	
S. W. Fuller, lumber	272.34	
Maney, Flaherty & Elkins, lum- ber	68.50	
I. H. Brown Moulding Co., plugs	9.70	
L. C. Seavey, roofing	6.34	
D. P. Bucknam, mason work	38.50	
George W. Trefren, Jr., car- pentering	8.26	
James Buckley, labor	6.00	
G. A. Miles, professional ser- vices	2.00	
Jackson, Caldwell & Co., bed	11.00	
J. C. Nourse, blankets	2.50	
J. H. Brooks, cloth	1.74	
Sprague & Hathaway Co., frame	3.83	
Somerville Journal Co., print- ing	32.45	
Heliotype Printing Co., map	13.50	
Frederick R. Cutter, clock	3.50	
H. W. Covell, plumbing	13.31	
James F. Davin, plumbing	16.05	
W. L. Snow, plumbing	.30	
George W. Prichard, teaming	26.50	
T. F. Crimmings, teaming	331.99	
Richard Falvey, teaming	100.47	
Henry Daniels, teaming	50.50	
<i>Amounts carried forward</i>	\$74,509.16	\$75,588.62

<i>Amounts brought forward</i>	\$74,509.16	\$75,588.62
P. J. McLaughlin, teaming	39.50	
Martin Gill & Son, teaming	15.00	
George F. McKenna, teaming	10.00	
Owen Cunningham & Son, sand	23.25	
John Silk, sand	34.00	
Philip Eberle, rubber boots	10.75	
Edward E. Saben, insurance	18.00	
Boston & Maine Railroad, freight	252.32	
F. S. Barstow, compensation for damages	75.00	
Hiram A. Lovering, compensa- tion for damages	30.00	
S. Henry Hadley, compensa- tion for damages	196.31	
Alson Knight, compensation for damages	13.69	
Sewers Maintenance account, repairing catch basins	9.76	
Sewer Assessments, sewer in Cedar street	91.99	
Reduction of Funded Debt, bal- ance transferred	259.89	
		<u>75,588.62</u>

WATER SERVICES.

CREDIT.

Cash, received of W. B. Reardon, extending service pipe	40.15
H. W. P. Colson, extending service pipe	11.00
Amos Nickerson, gate box	3.50
Broadway Congregational Church, connection	28.72
F. O. Squire, fitting	29.50
<i>Amount carried forward</i>	<u>\$112.87</u>

<i>Amount brought forward</i>	\$112.87
Water Service Assessments, cost of services laid	5,763.40
	<hr/>
	\$5,876.27

DEBIT.

Cash, paid laborers	\$2,128.09
Union Water Meter Co., lining machine	50.00
Water Maintenance account, pipe and teaming	3,698.18
	<hr/>
	\$5,876.27
	<hr/>

WATER SERVICE ASSESSMENTS.

CREDIT.

Cash, received of Sundry Persons, water services .	\$5,781.05
--	------------

DEBIT.

Balance from 1895	\$17.65
Water services, pipes laid in . 1896	5,763.40
	<hr/>
	5,781.05
	<hr/>

WATERING STREETS.

CREDIT.

Appropriations, amount assessed	\$6,000.00
Watering Streets Assessments, assessments levied	11,918.44
Cash, received of abutters	77.00
West End Street Railway Co., season of 1896	340.56
Wilbur P. Rice, discount on bill	2.52
	<hr/>
	\$18,338.52

DEBIT.

Cash, paid N. C. Barker, overseeing	\$680.00
G. W. Cummings, watering	475.96
	<hr/>
<i>Amounts carried forward</i>	\$1,155.96
	\$18,338.52

<i>Amounts brought forward</i> .	\$1,155.96	\$18,338.52
Owen Cunningham & Son, watering	1,319.24	
Day & French, watering	900.67	
Henry McAvoy, watering	519.23	
Henry J. McAvoy, Jr., watering	931.73	
A. M. Prescott, watering	519.23	
R. M. Sturtevant, watering	481.73	
S. E. Sturtevant, watering	481.73	
H. J. Turner, watering	481.73	
Christopher Burke, watering	420.00	
Philip McGovern, watering	900.00	
James Horrell, watering	450.00	
C. T. Shean, watering	450.00	
Benjamin Thomas, watering	441.35	
Andrew A. White, watering	487.50	
J. L. & H. K. Potter, repairing carts	371.15	
J. L. & H. K. Potter, carts	367.65	
Seward Dodge, repairs of carts	22.05	
F. Dooris, repairs of carts	4.10	
L. A. Wright, tools	5.00	
Citizen Publishing Co., adver- tising	27.25	
Somerville Journal Co., adver- tising	14.70	
Thomas Groom & Co., books	12.50	
Mabel L. Dadmun, clerical ser- vices	105.34	
K. W. Wood, clerical services	73.85	
City of Boston, water	4,650.24	
	<hr/>	
	\$15,593.93	
Fire Department, amount trans- ferred	2,000.00	
<i>Amounts carried forward</i> .	<hr/>	<hr/>
	\$17,593.93	\$18,338.52

<i>Amounts brought forward</i> . . .	\$17,593.93	\$18,338.52
Watering Streets Assessments, assessments abated	16.24	
	<hr/>	
	\$17,610.17	
Excess and Deficiency, balance to credit of account	728.35	
	<hr/>	
		<u>18,338.52</u>

WATERING STREETS ASSESSMENTS.

CREDIT.

Cash, received of Sundry Persons	\$8,825.54
Watering Streets, assessments abated	16.24
Balance to debit in account 1897	3,076.66
	<hr/>
	\$11,918.44

DEBIT.

Watering Streets, assessments levied	<u>11,918.44</u>
--	------------------

WATER WORKS EXTENSION.

CREDIT.

Balance from 1895	\$631.83
City of Boston Water Rates, amount appropriated	16,000.00
	<hr/>
	\$16,631.83

DEBIT.

Cash, paid laborers	\$9,591.06
Water Maintenance account, pipe and teaming	7,040.77
	<hr/>
	<u>16,631.83</u>

TABLE D.

BALANCES DECEMBER 31, 1896.

Cash	\$55,333.45	
Public Property	2,515,710.65	
Real Estate Liens	1,339.83	
Sewer Assessments	14,983.62	
Sidewalk Assessments	4,535.56	
State of Massachusetts, Burial of Indigent Soldiers and Sailors	315.00	
State of Massachusetts, Indigent Soldiers and Sailors	236.00	
State of Massachusetts, State Aid	8,214.00	
Taxes	284,274.30	
Watering Streets Assessments	3,076.66	
City Hall Improvement		\$8,261.93
Excess and Deficiency		1,178.02
Funded Debt		1,531,000.00
Overlay and Abatement		2,142.92
Overplus on Tax Sales		102.13
Property and Debt Balance		984,710.65
Public Library		10.21
Reduction of Funded Debt		5,928.35
Schoolhouse, Land in Ward Three		6,000.00
Schoolhouse, Land, Spring Hill District		500.00
Schoolhouse, Ward One		19,002.22
Sewers Construction		27,809.83
Sundry Persons		1,372.81
Temporary Loans		300,000.00
	<u>\$2,888,019.07</u>	<u>\$2,888,019.07</u>

REPORT
OF THE
SCHOOL COMMITTEE.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, January 27, 1897.

Referred to the Committee on Printing, to be printed in the annual reports. Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, January 28, 1897.

Referred to the Committee on Printing, to be printed in the annual reports, in concurrence.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

SCHOOL COMMITTEE ROOMS,
January 11, 1897.

TO THE CITY COUNCIL OF SOMERVILLE.

Gentlemen:—At a meeting of the Board of School Committee held December 28, 1896 it was

Ordered, That the Annual Report of the Superintendent be adopted as the Annual Report of the Board of School Committee, it being understood that such adoption does not commit the Board to the opinions or recommendations made therein; that the same be referred to the City Council with a request to incorporate it in the annual reports; and that 1200 copies be printed in separate form.

Respectfully,

G. A. SOUTHWORTH.

Sec'y of School Board.

SCHOOL COMMITTEE, 1896.

HON. ALBION A. PERRY, Mayor, *Chairman, ex officio.*

GEORGE E. WHITAKER, President of the Common Council, member *ex officio.*

MEMBERS.

WARD ONE.

	Residence.	Term expires
SANFORD HANSCOM,	1 Webster street .	January, 1897
S. NEWTON CUTLER,	28 Flint street .	" 1898
GEORGE S. POOLE,	46 Mt. Vernon street .	" 1899

WARD TWO.

THOMAS M. DURELL,	23 Bow street .	January, 1897
ALVAH B. DEARBORN,	34 Bow street .	" 1898
HERBERT A. CHAPIN,	41 Walnut street .	" 1899

WARD THREE.

THOMAS S. WENTWORTH,	350 Broadway .	January, 1897
FRANK E. HARDISON,	192 Central street .	" 1898
QUINCY E. DICKERMAN,	85 Central street .	" 1899

WARD FOUR.

MARTIN W. CARR,	74 Craigie street .	January, 1897
GEORGE A. MILES,	417 Highland avenue .	" 1898
GILES W. BRYANT,	296 Elm street .	" 1899

The Board holds its regular meetings on the last Monday evening of each month at 8 o'clock.

GORDON A. SOUTHWORTH,

Secretary and Superintendent of Schools.

Office, English High School building. Residence, 40 Greenville street.

STANDING COMMITTEES, 1896.

ENGLISH HIGH SCHOOL.—*Hanscom*, Chapin, Dickerman, Poole, Carr.

LATIN HIGH SCHOOL.—*Cutler*, Bryant, Hardison, Durell, Dearborn.

EAST SOMERVILLE DISTRICT.—*Cutler*, Poole, Hanscom.

PROSPECT HILL DISTRICT.—*Dearborn*, Chapin, Whitaker, Durell.

WINTER HILL DISTRICT.—*Hardison*, Dickerman, Perry, Wentworth.

SPRING HILL DISTRICT.—*Carr*, Miles, Bryant.

WEST SOMERVILLE DISTRICT.—*Miles*, Bryant, Carr.

RULES AND REGULATIONS.—*Dickerman*, Cutler, Miles, Chapin.

FINANCE.—*Carr*, Whitaker, Hardison, Poole.

ADDITIONAL SCHOOL ACCOMMODATIONS.—*Perry*, Cutler, Dearborn, Hardison, Carr.

REPAIRS.—*Poole*, Carr, Dearborn, Wentworth, Miles.

SUPPLIES.—*Hardison*, Durell, Poole, Bryant.

TEXT-BOOKS.—*Bryant*, Dickerman, Hanscom, Wentworth, Chapin, Cutler, Durell.

INDUSTRIAL EDUCATION.—*Chapin*, Carr, Cutler, Dickerman.

MUSIC.—*Wentworth*, Miles, Hanscom, Chapin.

EXAMINATION OF TEACHERS.—*Miles*, Hardison, Poole, Durell.

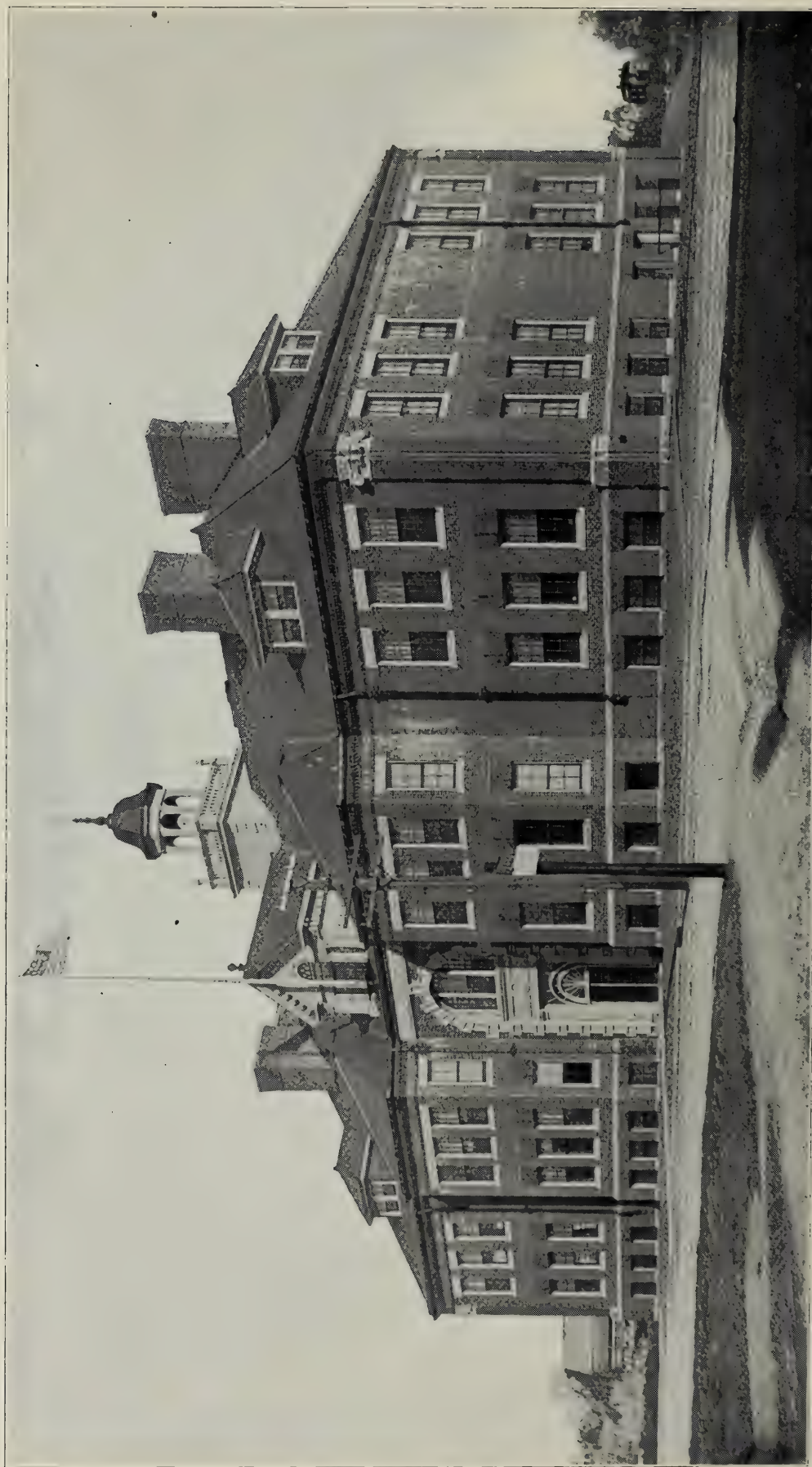
SALARIES.—*Durell*, Bryant, Wentworth, Hanscom.

EVENING SCHOOLS.—*Dearborn*, Hanscom, Dickerman, Bryant.

PRIVATE SCHOOLS.—*Poole*, Miles, Wentworth, Dearborn.

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WILLIAM H. HODGKINS SCHOOL.

ANNUAL REPORT
OF THE
SUPERINTENDENT OF SCHOOLS
FOR
1896.

TO THE BOARD OF SCHOOL COMMITTEE :—

The twenty-fifth annual report of the Superintendent of Schools for the year ending December 31, 1896, is respectfully submitted, being the fourth of the present incumbent of the office and the fifty-fourth of the school department of the municipality.

With the close of the present year Somerville completes the first quarter century of its life as a city. A brief retrospect of these eventful twenty-five years as related to its public schools will not be devoid of interest.

In 1872, when Somerville became a city, it contained a population of 16,000. To-day 54,400 people live within its borders, an increase of 240 per cent. The growth of the city has naturally been most rapid in the fourth ward, the increase in that section being about 620 per cent., while that of wards two and three is 200 per cent., and that of ward one about 50 per cent.

This phenomenal increase of population of course indicates a corresponding increase in the number of children to be educated. Twenty-five years ago 3,000 children were in attendance upon the public schools. To-day the city is educating nearly three times as many, while half as many more are being instructed in private schools.

To provide accommodations for the schools the sixteen school buildings of 1872 with their sixty schoolrooms have

grown to twenty-five buildings, containing one hundred and ninety-two rooms. Three of the original sixteen buildings, the Brastow, Union, and Spring Hill schoolhouses, have been abandoned, and two, the Webster and Lincoln, have been burned. Fourteen new buildings have been erected during our city life, increasing the valuation of our permanent school property from \$300,000 in 1872 to \$900,000 in 1896.

For the maintenance of our public schools during these twenty-five years there has been expended a sum aggregating \$2,608,245. This includes what has been paid for instruction, supervision, books, supplies, and the heating and care of school buildings. The sum expended for this purpose in 1872 was \$58,920, in 1896 \$204,743, an increase of 247 per cent. The increase in the cost of the schools is somewhat larger than the increase in population. This apparently disproportionate increase may be accounted for by the facts that we now pay six times as much for special teachers, that now all text-books and supplies of every sort are furnished at public expense, that the care and heating of modern school structures is more expensive, that kindergartens and manual training have been added, and that a larger number of pupils remain in school until they have completed the courses of study. The per capita cost in 1872 was \$21.05, as against \$25.35 in 1896.

The growth in the assessors' valuation of property in the city has not kept pace with the increase of population, the latter having advanced 240 per cent., while the former has grown only 115 per cent., from twenty-two and three-fourths millions in 1872 to forty-nine millions in 1896. This, of course, involves a larger pro rata school tax. Where the city paid two and fifty-nine one-hundredths mills on each dollar of valuation twenty-five years ago for the maintenance of schools, it now pays four and eighteen one-hundredths mills.

The administration of the affairs of the schools in all their burdensome details during the period we are considering has been conducted by 84 of our citizens, 80 men and 4 women, who at various times have rendered faithful and gratuitous service for longer or shorter periods on the School Board. Their names and

the time of their official terms will be found on subsequent pages.

In 1872 eighty-three pupils were graduated from the Grammar schools. This was three and one-third per cent. of all the Grammar and Primary pupils in the city. In 1896 the Grammar schools graduated 370, five and one-fourth per cent. of the average membership. This increase is especially gratifying, for it shows that a larger proportion of children remain to complete the Grammar School course.

The number of high school pupils graduated in 1872 was twenty-one; in 1896, 115, an increase more than twice as large as the increase in school population. In 1872 six and one-third per cent. of the average membership of all the schools were found in the High School. The corresponding number at present is 9.6 per cent. If the High School membership had increased no more than the general school population of the city it would now include but five-eighths of its present number.

During these twenty-five years five thousand three hundred and sixteen (5,316) pupils have been graduated from the Grammar schools, one-fourth of whom (1,299) have completed the High School course.

As showing the improvement in moral tone and methods of government now prevalent, it is worth mentioning that in 1872 there were eight and two-thirds times as many cases of tardiness and about thirty times as many cases of corporal punishment as in 1896, the number of pupils being taken into account.

The changes in the work of the schools and subjects of study can be but briefly mentioned. Chief among these are the adoption of a system of industrial drawing, with the employment of a supervisor, the introduction of sewing, the use of the Ling system of gymnastics, the establishment of kindergartens, the extension of musical instruction to the Primary grades, the adoption of a course of study in elementary science, the introduction of supplementary reading, the establishment of a Manual Training School, the co-ordination of the public library with the schools, and the enlargement of High School courses made possible by increased facilities.

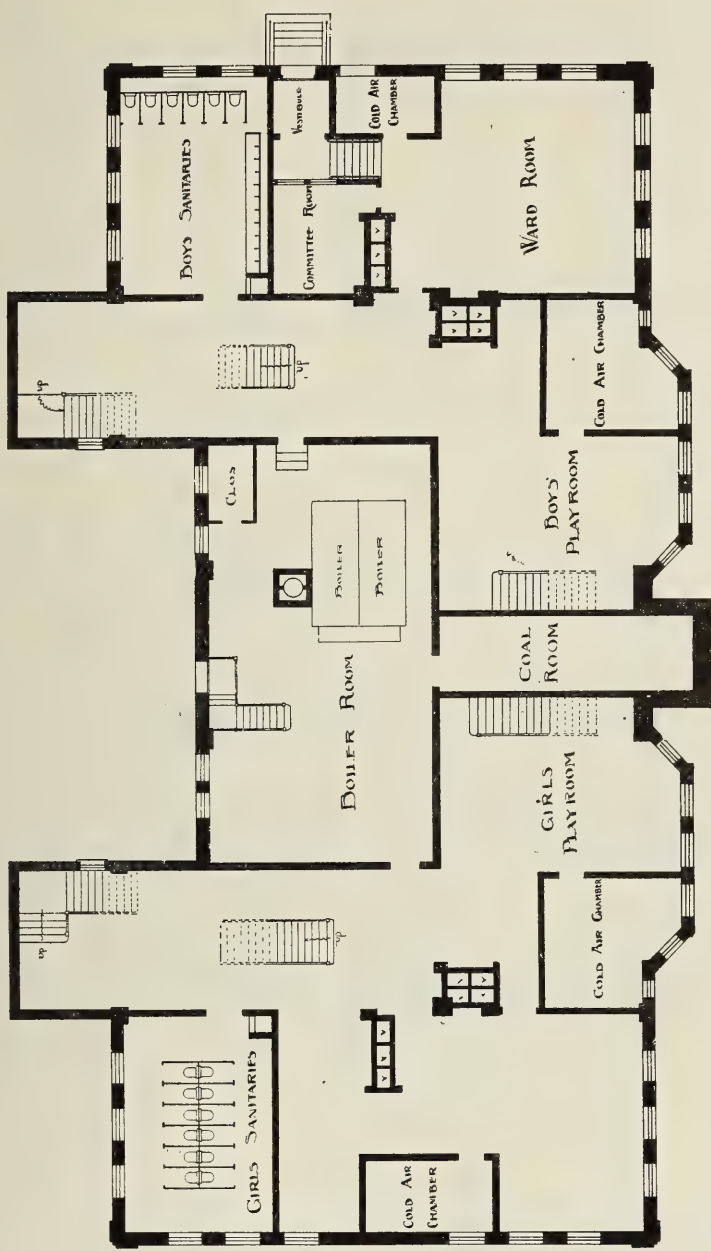
It would be interesting to close this brief retrospect with a statement of what our schools have actually done during these years in forming the character and determining the future of the thousands who have come under their influence. This, however, is impossible. It can only be inferred from the intelligence, the virtue, the prosperity of our citizens.

It is a matter of pride and congratulation that our schools and their managers have always enjoyed the confidence and respect of our citizens, that they have been kept free from sectarian and political influences, and that they have been supported with generous appropriations and fostered with jealous care. May the next quarter century repeat in their experience the progress and prosperity of the past and yield yet richer returns for all the labor and outlay spent upon them.

The following table shows the increase and growth of the city in several important respects during the period from 1872 to 1897:—

TABLE SHOWING THE SCHOOL GROWTH OF SOMERVILLE
SINCE IT BECAME A CITY IN 1872.

	1872.	1896.	Per cent of Increase.
Population	16,000	54,400	240
School Census	2,932	8,885	203
Average Membership of Public Schools	2,799	8,077	189
Number of School Buildings . . .	16	25	56
Valuation of " " . . .	\$300,000	\$900,000	200
Number of Schoolrooms . . .	60	192	220
Number of Teachers, Men . . .	8	22	175
Number of Teachers, Women . . .	57	193	238
Assistants	5	10	100
Special Teachers	2	6	200
Total Number of Teachers . . .	70	230	229
Cost of Maintaining Schools . . .	\$58,920	\$204,743	247
Per Capita Cost	\$21.05	\$25.35	20
High School Teachers, Men . . .	2	11	450
" " Women	4	19	375
" " Total	6	30	400
Average Membership of High School .	181	840	363
Graduates of High School . . .	21	115	448
" of Grammar Schools . . .	83	370	346
Valuation of City	\$22,755,325	\$49,013,050	115.4



BASMENT PLAN.
Scale $\frac{1}{8}'' = 1$ Foot

Junior Dudley Kelley Street
209 Washington St. Boston Mass.

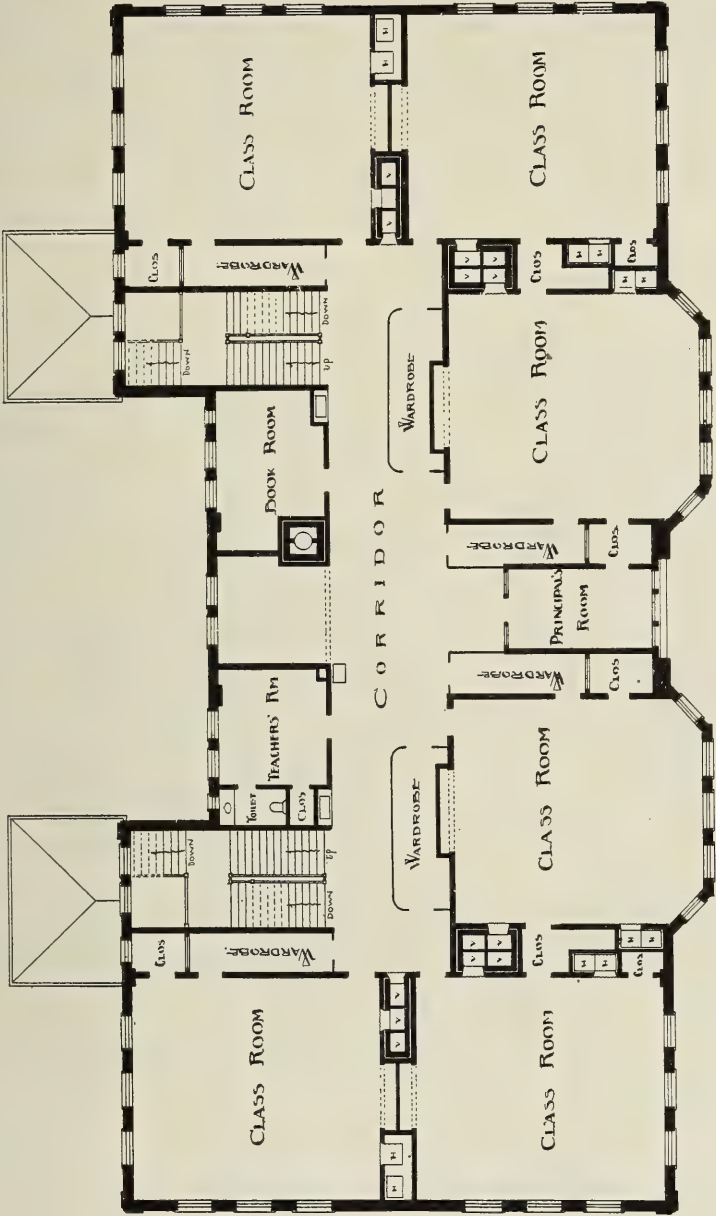
WILLIAM H. HODGKINS SCHOOL



FIRST FLOOR PLAN
Scale 1/8" = 1 foot

WILLIAM H. HODGKINS SCHOOL

James Henry Kelly Shaver
239 Main Street Boston Mass.



SECOND FLOOR PLAN.

Scale $\frac{1}{8}$ " = 1 Foot.

WILLIAM H. HODGKINS' SCHOOL

James Dyer Miller Architect.
209 Washington St. Boston Mass.

SUMMARY OF STATISTICS.

	1895.	1896.
Population of Somerville . . .	52,200	54,400
School population, May 1 . . .	8,510	8,885
Children attending school in December	9,609	10,113
Attending private schools in December	1,418	1,410
Attending public schools in December	8,191	8,703
Attending High schools in December	742	840
Attending Grammar and Primary schools in December	7,449	7,863
Entire enrollment for year . . .	9,914	10,582
Average number belonging . . .	7,617	8,077
Average number attending . . .	7,255	7,663
Per cent. of daily attendance . .	95.24	94.9
Number of school buildings . . .	24	25
Valuation of school property . .	\$813,200.00	\$911,800.00
Number of classrooms	173	192
Number of teachers in December .	209	225
Salaries of teachers	\$139,712.87	\$157,051.21
Salaries of officers	\$4,400.00	\$4,500.00
Cost of books and supplies . . .	\$15,063.16	\$17,601.28
Cost of water and light	\$1,398.01	\$1,469.00
Cost of janitors' services . . .	\$11,581.00	\$14,160.00
Cost of fuel	\$8,795.91	\$9,962.00
Total cost of day and evening schools	\$180,950.95	\$204,743.10
Cost for each pupil in average membership	\$23.76	\$25.35
Cost for each High school pupil .	\$49.79	\$62.25
Cost for each Grammar and Primary pupil	\$21.28	\$21.57
Amount paid for new school buildings	\$87,679.64	\$61,016.04

Cost of repairs and permanent improvements	\$15,650.97	\$33,240.42
Entire expenditures for all school purposes	\$284,281.56	\$298,999.56
Expended by School Board.	\$160,574.04	\$179,152.49
Expended by City Government	\$123,707.52	\$119,847.07
Valuation of city	\$46,406,300.00	\$49,013,050.00
Per cent. of valuation spent to maintain schools	0.390	0.418
Per cent. of valuation spent for all school purposes	0.613	0.644

ATTENDANCE.

The theoretical school year in Somerville contains forty weeks. This has been reduced to thirty-six and one-tenth weeks in 1896 by the inevitable losses incident to the proper observance of holidays, stormy weather, extension of vacations, etc. Schools have been closed 39 half days, as follows:—

On five legal holidays	10 half days.
For stormy weather	9 “
Extension of vacations	13 “
Thanksgiving recess	3 “
Teachers' Convention	2 “
Funeral of Governor Greenhalge	1 half day.
Cambridge semi-centennial	1 “

Five per cent. of the remaining time was lost by necessary absences of pupils, and another five per cent. at least by the friction and waste incident to the running of the best adjusted school machinery. This reduction of the length of the school year, while probably unavoidable, contributes its share to the feeling on the part of teachers that the work required is too great to be well accomplished in the time allowed. The development of the powers of the mind is a process that cannot be hastened beyond a natural limit. There is no patent reaper or thresher for speeding work in the field of knowledge. By his

own effort each must reap and gather sheaves for himself. The road to learning has not yet been equipped with electric appliances. The traveller towards its hilltop must still plod on by the use of his own powers. Modern school methods and eliminations and additions may relieve somewhat the tedium of the journey by broadening the views and smoothing the path, but the end can be reached only by slow and patient steps. Public opinion would hardly sanction the lengthening of either the school day or the school year, but we should certainly resist all attempts to shorten either and should see that every moment of the allotted time is made to yield its full value.

The average membership of the schools during the year has been 8,077, an increase of 460 over last year. Ninety-four and nine-tenths per cent. of this number have been in constant attendance, 2,743 pupils have been tardy once during the year, and 1,560 have been once dismissed before the close of the session. There have been 257 occasions on which teachers have felt it needful to supplement their moral power by appeals to force. This number seems reasonably small when we consider that there is as much human nature existing in every child as there ever has been, and that parental restraint and influence are apparently growing weaker as the disposition of the boy of the period to have his own way grows stronger. Teachers are to be congratulated on their success in stemming the tide of youthful impulse and temper by mild but efficient methods of discipline. We are gradually realizing that the world of childhood can be ruled by love.

The attendance at the High schools has been the largest in our history. The Latin School has numbered 259 throughout the year, and the English 491. In October last the membership of both schools was 858. By reference to the accompanying table showing the ratio of the High School membership to the population of each city in the Commonwealth it will be seen that among the thirty-two cities Somerville stands sixth, being surpassed in this respect only by Medford, Fitchburg, Newton, Quincy (with an eight-year course in its elementary schools), and Woburn. This gratifying pre-eminence is largely to be at-

tributed to the unusual facilities offered by our two schools in their full and varied courses, their complete equipment, and their able instructors, as well as to the determination of our citizens to secure the best education possible for their children. Existing conditions show that the establishment of the English High School on a broad and generous basis was wise and timely, and that its advantages are duly appreciated by our people. Its needs will be presented later in the report.

MEMBERSHIP OF HIGH SCHOOLS IN THE CITIES OF MASSACHUSETTS.

	High School Membership October, 1896.	Population of City, 1895.	Ratio.
1 Medford	337	14,474	.02328
2 Fitchburg	560	26,409	.02120
3 Newton	565	27,590	.02048
4 Quincy	375	20,712	.01811
5 Woburn	239	14,178	.01686
6 Somerville	858	52,200	.01644
7 Beverly	190	11,806	.01609
8 Worcester	1,507	98,767	.01526
9 Newburyport	210	14,552	.01443
10 Marlboro	210	14,977	.01402
11 Chelsea	428	31,264	.01369
12 Malden	400	29,708	.01346
13 Cambridge	1,073	81,643	.01314
14 Waltham	269	20,876	.01288
15 Gloucester	361	28,211	.01280
16 Everett	231	18,573	.01244
17 Lynn	775	62,354	.01243
18 Pittsfield	253	20,461	.01236
19 Haverhill	365	30,209	.01208
20 Brockton	392	33,165	.01182
21 Salem	400	34,473	.01160
22 Taunton	310	27,115	.01143
23 Northampton	180	16,746	.01075
24 Holyoke	410	40,322	.01017
25 Springfield	517	51,522	.01003
26 North Adams	187	19,135	.00977
27 Boston	4,844	496,920	.00975
28 Lowell	737	84,367	.00874
29 Lawrence	400	52,164	.00767
30 New Bedford	360	55,251	.00652
31 Fall River	575	89,203	.00645
32 Chicopee	98	16,420	.00597

INCREASED ACCOMMODATIONS.

The completion of the new schoolhouse on Holland street at West Somerville, has brought relief from the crowded and half-time conditions that have so long prevailed in that part of the city.

The work of erecting this building was begun in May, 1895, but unexpected difficulties in securing a foundation and seemingly needless delays in the construction prevented its occupancy until September, 1896. Its twelve commodious, convenient, well-ventilated rooms were immediately filled by the transfer of pupils from the Lincoln and Highland schools.

In 1895, at the request of the School Board, the City Council voted to name the new school after William H. Hodgkins, then mayor of the city. Mr. Hodgkins was born in Charlestown, June 9, 1840, and was educated in the schools of his native city. On leaving school he learned the business of a merchant, in the Southern shipping and commission trade, on State street. In July, 1862, he enlisted in Company B, Thirty-sixth Regiment, Massachusetts Volunteers, was promoted second lieutenant, first lieutenant, adjutant and captain. In 1865 he was brevetted major. After the war Major Hodgkins came to Somerville and entered the service of the city of Boston, in the Department of Public Institutions, where he served as clerk of the board for twenty-one years. He served the city in the Common Council of 1873 and 1874, the last year as president. He was the honored and efficient chief magistrate of the city from 1892 to 1896.

The cost of the Hodgkins School building is as follows:—

Land, 35,034 feet	\$7,908.33
Contract price of building	\$39,163.00
Extra expenditures, heating, furnishing, grading, etc.	13,693.01
	<hr/>
	\$52,856.01
	<hr/>
Total cost of building and land	\$60,764.34

On the 8th of June Arthur L. Doe, principal of the Centre School, Malden, was elected master of the new school. Mr. Doe is a native of Vassalboro, Maine, and a graduate of Colby University in 1884. He has had a successful experience of twelve years as a school principal in Falmouth, Woonsocket, and Malden.

The recommendations of the board, made early in the year, concerning additional accommodations in East Somerville, have materialized in the shape of a six-room schoolhouse now in process of erection on the corner of Webster and Rush streets. Its completion is promised in season for occupancy on the first of April, 1897. This appears to provide for the needs of this district for several years.

In January, 1896, the Committee of the School Board on Additional Accommodations, for the relief of the Winter Hill district, recommended to the board the enlargement of the Glines schoolhouse by the addition of rooms at each end. This recommendation was referred to the standing committee of the district, who reported that the needs would be better met by the erection of a twelve-room building on Willoughby street. Their recommendation was adopted by the board and referred to the City Council. Nevertheless, for financial reasons, the City Government decided to enlarge the Glines building, although the district committee made a vigorous protest. In accordance with plans furnished by Aaron H. Gould, architect, the work of reconstruction was begun July 1, and continued without serious interruption to the sessions of the school until completed, November 16. The enlargement provides five additional class-rooms without interference in any way with the original rooms. Architecturally the building is much improved, being now one of the most attractive in the city. The old imperfect heating system has been replaced by steam, a fan supplying every person in the building with 40 cubic feet of fresh air per minute.

The outlay, including the heating of the entire building, furniture, etc., has been \$26,610.01.

On the 16th of November one hundred pupils, mainly of the eighth and ninth grades, were transferred from the Forster

School to the new building. On November 30 a Kindergarten was opened with forty members, and on December 9 Mary E. Northup was elected master of the school. At the present time the thirteen rooms in the building are all occupied, the average number of pupils to a room being 46.3.

In accordance with the urgent recommendation of a special committee of the board, and in long-delayed conformity to the law of the State, during the summer vacation the Bell school-house, which, strange to say, had been used twenty-one years without any system of ventilation worthy the name, was supplied with apparatus for heating and ventilating of the most approved pattern. The expenditure involved was \$6,863.26, which yields a dividend on the investment of 34 cubic feet of pure air per minute to each pupil, the legal requirement being but thirty feet. This fresh air is heated by steam coils in the basement to the required temperature and forced into the classrooms by means of a fan driven by steam.

To carry out the recommendation of the same committee, the sanitary arrangements of the Forster building have been reconstructed in accordance with modern ideas. Ample closets have been provided in the basement and improved entrances thereto made; better light has been furnished; new dressing-rooms have been added and the old ones enlarged; and when the entire building shall have received new floors and the thorough renovation it needs at the hands of painters and white-washers, it will rank among the best of our large buildings.

In this connection it may be remarked that new rules for the direction of janitors have been adopted, which require the thorough cleansing of all school buildings three times each year. This is none too often to secure immunity from infection, to say nothing of the promotion of the virtue that is akin to godliness. The utmost care is taken to exclude from the schools every child exposed in any way to contagious diseases and to promote the health and comfort of all.

Fully to accomplish what is desirable in this direction two things must gradually be secured. First, the replacement in most of our intermediate rooms of the present chairs and desks

by modern furniture that may be adjusted to the size of the occupants. Not only is there a marked difference in the size of children in the same class, but it often happens that one grade will occupy a room one year and a higher or lower grade another year. At comparatively slight expense the iron standards can be changed and thus an important contribution made to the hygienic development of growing boys and girls.

The second desideratum to be secured is additional light for many of our schoolrooms. This is especially needful in some of the older buildings. In modern structures it is generally the intention to make the window surface one-fifth that of the floor. Only one-half of this supply of light is secured in many cases by present conditions. In the afternoon especially rooms are frequently so dark that all eye-work must be suspended, although absorbed teachers and pupils often continue work far beyond the danger line. Disease and weakness of the eyes are becoming constantly more prevalent. Recent expert examination of the eyes of thousands of children at school under ordinary conditions reveals the fact that defective eyesight increases in a marked ratio as children pass from lower to higher grades. A recent professional examination of the eyes of 55,000 school children in the city of Baltimore showed defective vision in every fifth child. The eyes of 9,000 of them were in such condition that discontinuance of work was advised. This being the case, should not extreme care be taken to provide adequate light and to prevent in every way whatever may be of injury. With this in view, the minimum use should be required of the blackboard, writing and figures thereon should be of large size and distinctly made, and no pupils should attempt to read therefrom at difficult and injurious angles of vision.

COST OF THE SCHOOLS.

It has cost the city \$204,743.10 to maintain the schools for 1896. This includes what has been paid in day and evening schools for teaching, supervision, text-books and supplies, and

for the care, heating, and lighting of schoolhouses, but does not cover repairs and the cost of new buildings, an additional sum of \$94,256.46 having been paid for these purposes.

PER CAPITA COST OF MAINTAINING SCHOOLS, 1895 AND 1896.

AMOUNT PAID FOR	High Schools.			Grammar and Primary Schools.			All Schools.		
	1896.	1895.	In-crease.	1896.	1895.	In-crease.	1896.	1895.	In-crease.
Instruction and Supervision . .	\$45.02	\$34.82	\$10.20	\$17.44	\$17.41	\$0.03	\$20.00	\$18.92	\$1.08
Text Books and Supplies . . .	9.51	10.46	*0.95	1.43	1.17	0.26	2.18	1.98	0.20
Schoolhouse Expenses	7.72	4.51	3.21	2.70	2.70	0.00	3.17	2.86	0.31
Totals . . .	\$62.25	\$49.79	\$12.46	\$21.57	\$21.28	\$0.29	\$25.35	\$23.76	\$1.59

* Decrease.

By reference to the accompanying table it will be seen that the per capita cost of all the schools for 1896 has been \$25.35, an increase of \$1.59 as compared with 1895. The table also shows in what way the increase has been caused.

There has been an increase of three cents for the instruction of each Grammar and Primary pupil. This may be more than accounted for by the employment of a special teacher of penmanship. Grammar and Primary school supplies have cost 26 cents more per pupil than last year. This increase has been occasioned by the equipment of the Hodgkins and the Glines schools and the change of geographies and music books.

The remaining \$1.30 of the general per capita increase is chargeable to the High schools, the cost of instruction having been \$19.20 more per pupil than during the last year of the undivided school.

The cost of High School supplies for this year is exceptional, and is occasioned by expenditures for the permanent equipment of the English High School with text-books, library books, laboratory apparatus, typewriters, etc. Attention is called to the cost of heating and caring for the High School buildings, which is nearly three times as much per pupil as is paid for other schools in the city.

The increase in the cost of High School instruction is permanent; indeed, it will be a little greater another year. This is to be expected when the increased facilities and extended courses of the schools are considered. It must not be forgotten that the Manual Training shops alone, which State enactment obliged us to open, add more than \$4.00 to the annual per capita cost. The cost of the schools is a measure of their value, and it must be borne in mind that these increased expenditures are more than offset by the grand results they are accomplishing. No one can visit our High schools and see the enthusiasm of teachers and pupils and examine the excellence of the work done without being convinced that a full equivalent is being given for all that is received.

Each of the 126 kindergarten children in attendance during the year has cost the city \$17.11, the total being \$2,155.35. The 253 pupils who have been present at each one of the 45 two-hour sessions of the evening elementary and drawing schools have cost \$11.81 each, more than four times as much pro rata as the day-school pupils, the cost being 13.1 cents per hour in one case and 3 cents in the other.

ADDITIONAL ACCOMMODATIONS REQUIRED.

1. Seventeen new schoolrooms have been supplied this year by the Glines enlargement and the completion of the Hodgkins schoolhouse. These rooms will accommodate eight hundred and fifty pupils, and supply the needs of the districts in which they are located for the present. There is one vacant room in the Lincoln School, which will be occupied in September next. The westward movement of children in the fourth ward failed to afford the expected relief to the schools in the Spring Hill district. These schools are crowded to-day. In April one hundred children in them will be on half-time. It is impossible to foretell how the requisite accommodations will be supplied next September. The time has come when the construction of the long-talked-of twelve-room building on Beech street can be postponed no longer. It is needed for the relief of the Burns and Morse schools. It will replace the dark,

dismal, unventilated old chapel that for a quarter of a century has masqueraded as the Beech-street schoolhouse. It will enable us to close the Franklin building, which has faithfully served its generation for just fifty years, and should be relieved from further duty. It will give the residents of that vicinity what they have long been denied, school accommodations adequate to their needs and equal in character to those furnished the more fortunate residents of other parts of the city. The city now owns the lot, containing 11,000 feet of land, to which as much more can readily be added. It is hoped that immediate steps may be taken to begin the work at the earliest possible day, in order that the building may be occupied by January 1, 1898.

2. The recommendation made in the annual reports of the last two years for a four-room building south of the Fitchburg railroad on Washington street, near Calvin or Dimick street, is here urgently renewed. It is needed to relieve the westerly portion of the Prospect Hill district and lessen the pressure upon the Knapp School. It will prevent the crossing at grade of the railroad by little children, and it will enable us to abandon that relic of a by-gone age, the Harvard schoolhouse. If the building is ready by September, 1897, it will be filled at once.

3. When the architect's plans for the English High School were presented in the fall of 1893 they showed a building with a seating capacity of about seven hundred, and on this basis they were adopted. The building was constructed according to the plans, but when the furniture came to be set it was found that the fifteen class-rooms would contain only five hundred eighty-three seats. A portion of one room being needed for biological tables, as a matter of fact only five hundred sixty-five seats were put down. The only possible way to realize the architect's estimate is by halving the number of aisles and placing two rows of seats close together. In this way an additional row can be placed in each room, thus increasing the capacity of the building to six hundred fifty-eight. This, however, would savor of a return to the old-fashioned double desks of our childhood, and would prove but an unsatisfactory

and temporary expedient. We must then call the capacity of the building as now arranged five hundred sixty-five.

The number of High School pupils has increased twenty per cent. within two years, from causes which have already been given in previous pages of this report. In the English School more pupils have been present at one time this fall than could be accommodated with seats, the surplus being provided for by extra chairs in lecture or recitation rooms. We are thus reluctantly brought face to face with the fact that the English School building, although so recently constructed, is too small to accommodate the school.

Has the school reached the limit of its growth? By no means. During its first year the two lower classes fell off one-fifth in number, eighty per cent. of each class returning in September of this year to continue the course. The third class lost only ten per cent. of its numbers. Taking this rate of loss as a basis for the computation, and taking into the account the natural growth of the city, we find that the school will number 625 in September, 1897, 700 in September, 1898, and 743 at the beginning of the school year in 1899. How shall these numbers be provided for?

There is only one way, and that is by an enlargement of the building. Without injury either to the utility or the architecture of the present building, it is perfectly feasible to add a wing projecting towards the rear from each end. These additions would each furnish seven rooms, and being independent of each other in their construction, could be erected at different times. In one of these wings the existing Manual Training plant could be established, and provision made for the extension of the work to the full course, now impossible in the present quarters. Being practically independent of the main building, the noise of the shops would interfere with no other department. The basement could be devoted to forging and foundry work, the first floor to iron work, the second floor to wood turning and carpentering, and the upper floor to drawing. The other wing would furnish a room for domestic science, six classrooms accommodating two hundred and fifty additional pupils and a much-needed storage-room for bicycles.

Should some such plan as the one here briefly outlined be thought wise, the addition could not be completed before September, 1898. Some provision, however, must be made for the six hundred and twenty-five pupils that will be enrolled in September of 1897. To meet these needs I suggest that the rooms now occupied by the Superintendent of Schools be changed into a classroom by the removal of partitions. This will furnish seats for forty pupils, and the remainder of the increment can be accommodated in temporary seats placed here and there in existing classrooms.

In any event, the Superintendent should be provided with other quarters. In some respects the present rooms are not convenient, but the chief objection to them lies in the fact that the building must be heated and kept open not only when the school is in session, but during afternoons, holidays, and vacations, thus entailing needless expense and inconvenience. It would be an easy matter to provide suitable rooms in the memorial building, the construction of which is now under consideration. Or, if it should be decided not to erect such a building, the proposition to provide accommodations for the School Department and the Overseers of the Poor by alterations in the old engine-house on Central Hill is one that could be carried out with comparatively little expense, thus completing the provision of sufficient room for all departments of the City Government for a number of years.

To recapitulate these recommendations in the order of their importance:—

1. The construction of a twelve-room building for Grammar and Primary grades on Beech street.
2. The alteration of rooms now occupied by the Superintendent of Schools in the English High School building into a classroom, and the resultant removal of that official's office to either the projected memorial hall or the reconstructed engine-house.
3. The addition to the westerly end of the English High schoolhouse of a wing projecting towards the north and con-

taining seven or eight rooms, with a similar extension for a Manual Training plant on the easterly end.

4. The erection of a Primary building of four or six rooms on Washington street, near Calvin.

TEACHERS.

How to secure and retain the services of the best teachers,—and we want no others,—is becoming each year a more serious and perplexing question. We have lost this year 20 teachers, 8 of whom have left us for service elsewhere at increased salaries, 3 have given up work on account of health, 8 have yielded to the allurements of domestic life, and one has gone for another reason. We cannot compete with the neighboring metropolis or with State normal schools in salaries offered. They draw our very best teachers. To fill the vacancies thus caused with teachers equally good is very difficult, if not impossible; hence there is danger that our general average of excellence will be lowered. Thirty-one new teachers have been employed during the year and six positions are yet but temporarily filled. Great care has been exercised to secure professionally trained teachers of successful experience, but the task is one that requires much time on the part of Superintendent and masters. In self-defence smaller cities have been compelled to increase salaries, and thus retain teachers whom otherwise we might secure. The extension of supervision throughout almost the entire State has created a demand for normally trained teachers in or near their own homes. The tendency of late years among high school graduates is to enter college rather than normal schools, and to seek employment in higher institutions. The opportunities for remunerative service for women in other lines of business are constantly increasing. On the other hand, the demands made not only on the time and strength, but on the attainments of teachers, are growing greater year by year, and thus lessening the attractions which the teaching profession once offered. All these things, together with the general recognition of the long-established fact that it is not good for man to be alone, make the supply of good teachers incommensurate with the demand.

What is the remedy? Evidently this: we must offer pecuniary inducements for the best teachers to come to Somerville, and for those now here to remain. A step in the right direction was taken when the Board placed itself on record as wishing to retain its most valuable teachers by a ten per cent. increase of salary. Shall we not be forced soon to extend this principle of action to enable us to draw into our service the teachers we want?

Another remedial step was taken in the establishment of a training-school, in a small way, to be sure, but on the right principle, in the Beech-street building. Under the direction of a competent teacher, three or four young women, who have had the advantage of the State normal schools, are getting very valuable experience and training in first and second grade work. A larger building would afford equal facilities for the development of teachers for higher grades. The established principle of admitting to the training-school only normal school graduates must not be violated, for no training-school can supply the place of a normal school. Its purpose is to supplement the latter by experience in actual teaching under wise and skilful direction and criticism.

An order of the Board, adopted in April and designed to prevent the interruption of school work resulting from the avoidable resignation of teachers in the middle of the year, occasioned considerable comment at the time. It is, however, founded on sound business principles. We contract annually with teachers. We want their services at least for a full year. We do not care to employ those who will enter upon the year's work only to abandon it at the most critical and inopportune time, to the great disadvantage of the pupils taught. Mid-year changes of teachers, under the most favorable conditions, always involve a loss. In these days it generally means an interregnum of substitute teaching. Some changes of this sort are inevitable, but everything possible should be done to reduce them to the minimum. Several neighboring municipalities are insisting on an unconditional contract requiring a full year's service, more prohibit any surrender of work during the last few months of the school year. Somerville, however, asks none of her

teachers to give up professional interests in her behalf, and wishes to hire only those who will, emergencies aside, carry the class work through to the end of the year, giving to the schools their full interest, and vigor, and time.

HIGH SCHOOLS.

Allusion has been made elsewhere in this report to the remarkable increase in the attendance in our High Schools. This is no cause for surprise when we contrast the present accommodations and facilities with what were provided during the few previous years in the old building. We may always expect a new building and enlarged opportunities to attract a larger number. This has already been shown to be the case in several cities of the Commonwealth which have recently opened new high school buildings. The question naturally arises whether this increase will prove to be permanent. Will the advantages presented lead to a retention of more pupils throughout the course? The experience of a single year may afford no just criterion, but the shrinkage of the two lower classes, in which the losses mostly occur during the school year ending June, 1896, was ten per cent. in the Latin School and twenty per cent. in the English, as against twenty-five per cent. for the last years of the combined school. The shrinkage of the entire Latin School was six per cent., against sixteen per cent. of the English. We may expect the greater permanency of membership in the Latin School, whose pupils enter with the specific purpose of fitting for college. But there is no doubt that the wide range of elective courses, the ample facilities offered in all departments, the attractions of the manual training work, the practical opportunities of the business course, the enthusiasm of both pupils and instructors, and the reputation which the school has already established for wise management and thorough work, will hold each year a larger number of pupils to complete its course. Relative expansion, rather than shrinkage, may be expected.

The Latin School graduated fifty young men and women in June last, at an average age of eighteen years six and one-

half months. Thirty-one of these have entered college. The English School graduated sixty-seven, whose age was nineteen years and two months. Of these, five entered college, five the Institute of Technology, and six one of the State normal schools.

In accordance with State enactment, and in pursuance of the plan formulated by the Committee on Manual Training, during the summer vacation two rooms in the westerly end of the basement of the English School were fitted up for the extension of the course, to include wood-turning, foundry work, carving, and clay modeling, the expense being \$6,843.73. A full description of the Manual Training plant as at present arranged, prepared by its superintendent, will be found elsewhere. This extension compelled the employment of an assistant, Harry L. Jones, of the Providence Manual Training School, who has charge of the mechanical drawing and carpentry. In the Manual Training department there are at present 96 boys.

The English School suffered the loss, at the end of the school year, of two of its teachers, Mr. Beede, the master, and Mr. Smith, teacher of physics, both of whom left us for increased salaries. Winfred C. Akers, from the Providence Training School, a graduate of Wesleyan University, was selected from among a large number of applicants to fill the position of master of the school, and Howard W. Poor, a graduate of Bowdoin, '93, and a teacher of several years' experience, was chosen to take charge of the department of physics. The increase of numbers at the opening of the fall term created a demand for an additional teacher in the English department, and Miss Susie L. Sanborn, for three years a teacher in the Gloucester High School, was secured for the position.

At the present time, December 18, the English School has a membership of 572, with twenty-one teachers, an average of 27.2 pupils per teacher. The Latin School contains 268 pupils and nine teachers, an average of 29.8 per teacher.

The following table shows the number of pupils engaged in each branch of study at the present time:—

STUDIES PURSUED.	LATIN.					ENGLISH.					
	No. in Grade.					No. in Grade.					
	10	11	12	13	Total.	10	11	12	13	Post Grad.	Total.
Algebra	79	..	..	53	132	221	..	12	..	..	233
Biology	44	..	..	..	1	45
Bookkeeping	20	12	6	38
Botany	13	..	2	15
Chemistry	34	6	1	41
Commercial Arithmetic	15	2	17
Commercial Law	4	1	5
Drawing	210	56	..	..	6	272
Elocution	231	147	98	78	1	555
English	79	67	69	53	268	230	137	83	75	1	526
Ethics	230	157	109	76	..	572
French	..	13	..	53	66	90	157	19	..	2	168
Geometry	..	67	68	..	135	..	136	14	13	..	163
German	..	27	29	21	77	32	14	..	..	1	47
Greek	..	42	39	43	124	..	..	..	..	..	..
History	79	..	68	..	147	129	136	172	66	..	503
Latin	79	67	68	53	267	100	41	5	..	..	146
Manual Training	78	..	18	..	..	96
Mechanical Drawing	74	42	..	..	1	117
Normal Arithmetic	11	..	11
Physics	25	1	26	..	34	..	..	1	35
Physical Geography	3	..	..	3	6
Physiology	101	77	..	178
Stenography	37	30	14	81
Typewriting	24	22	14	60

NUMERICAL HISTORY OF THE CLASS GRADUATED AT THE
HIGH SCHOOLS, 1896.

Grade.	Year.	Number.	Per cent.	Loss per cent.
I.	1884	952	100	
II.	1885	655	71	29
III.	1886	630	68	3
IV.	1887	691	73	5 gain.
V.	1888	617	67	1
VI.	1889	589	62	5
VII.	1890	495	52	10
VIII.	1891	460	48	4
IX.	1892	404	42	6
X.	1893	246	26	16
XI.	1894	177	19	7
XII.	1995	141	15	4
XIII.	1896	117	12.3	7

It is both interesting and instructive to note the numerical history of the class that graduated from our High schools this year. As a first grade it numbered 952. Seventy-one per cent. entered the second grade. During the next four grades it averaged an annual loss of only 1 per cent. In passing from the sixth grade to the seventh 10 per cent. dropped out. Twenty-five per cent. of the class entered the High School and 12.3 per cent. were graduated. The average attendance of the class in the High School was 18 per cent. of the number starting in 1884.

Of the 10,000 school children of Somerville, 8.4 per cent. are now in our High schools. Under ideal conditions, with these children equally distributed among the thirteen grades, four-thirteenths, or 31 per cent., would be found in the High schools. The ratio of this ideal number, 31 per cent., to the actual number, 8.4 per cent., or 27 per cent., shows the proportional part of our children that are actually enjoying the privileges of our High schools at the present rate of attendance. This fact should always be borne in mind in considering the cost of our High schools.

The aim of the English High School, its courses of study, and its methods of instruction and management, were fully set

forth in the last school report. The school has steadily progressed along the lines and according to the principles on which it was organized. In their devotion to their work, in the high character of their instruction, in the enthusiasm and spirit they arouse, in the respect and confidence they inspire, in the influence they exert in the formation of character, and in the untiring efforts for the welfare of those under their charge, the Principal and his assistants are constantly proving the wisdom of their selection, and are making a reputation for the school that is reaching far beyond our borders. Our citizens are to be congratulated in having High School facilities unsurpassed in the State. Each school, in its own especial way, is doing magnificent work. The ideals may not yet have been attained, but there will be no relaxation of effort and no satisfaction with results until the highest possible attainment has been reached. We have a right to expect the best things of our High schools, for no expense has been spared to supply them with all the appliances needed. But no wise expenditure will be withheld or grudgingly given so long as ample dividends are paid in the character of the young men and women whose education is thus secured.

COURSE OF STUDY.

During the last twenty-five years our elementary course of study has been four times revised, the last revision being nearly completed. These frequent revisions indicate constant changes in subjects and methods of instruction. There is nothing concerning which there is a wider divergence of opinion than prevails as to the arrangements and limitations of courses of study. Over this question the educational world has been in a state of turmoil, of discussion, of experiment, for the last two decades, but as yet no general agreement has been reached. Out of the chaos the ideal course may possibly be evolved, but the process is necessarily a slow one. The peculiar needs of each community must control and shape the work of its schools. Educational experiments are of the most costly kind, for they are often carried on at the sacrifice of the real interests of the schools.

With regard to the perplexing educational problems of the time we have tried to occupy the safe middle ground, avoiding either extreme. Without wasting time on experiments, we have not hesitated to adopt whatever has commended itself as answering our needs or promoting our interests.

In the rearrangement of our elementary course of study, which has recently been made, we have placed the study of the English language first and foremost. Under this head are included reading, spelling, the free and correct oral expression of thought, and some knowledge of the laws of good usage as embodied in technical grammar. To constant practice in this work all other subjects of study are made to contribute in greater or less degree, the importance of the modern idea of co-ordination or correlation of studies being recognized throughout the course.

In arithmetic the work of grades below the ninth has been somewhat extended, in order to make room for the introduction of algebra into the highest grammar grade. The exercises in this subject are necessarily simple, and are to be taken, as far as possible, in connection with, and in illustration of, the principles and applications of arithmetic. In the latter study we have proceeded throughout the course on the supposition that an exhaustive knowledge of any subject and its applications is not needed before the elementary features of another are presented. In other words, the spiral plan is followed. Emphasis is laid on the intelligent understanding of numbers themselves, and of a thoughtful analysis of processes as compared with the mechanical manipulation of figures. The shafts of the critics may well be directed against the ordinary methods of teaching arithmetic as being repressive and stultifying and a waste of time. As against arithmetic itself as a valuable means of developing power and skill when rightly taught, they have little force.

In geography, the old course has been somewhat modified in order to adapt it to the book now in use and to the best modern methods. Less attention is given to physical geography in the ninth grade; the aim throughout is to lead to its recog-

niton as a logical study admirably adapted to train the observation, the imagination, the reason, and the memory,—something besides a mass of interesting but unrelated facts. It is to be correlated with every other study in the curriculum.

The course in history has been changed by beginning its formal study in the seventh grade, thus affording time for its broader treatment and for the study of governments in the ninth grade. Historical reading is continued in the lower grades with the view of creating correct tastes and likings. The study is to be vitalized by constant excursions into the field of local history, which in our city and vicinity is so rich and broad.

The work of elementary science has been materially changed, chiefly in the direction of definiteness, and the time devoted to it somewhat increased. The course in physiology has been made more specific, the work of each grade being indicated in detail. In nature-work the six lower grades have clearly defined courses in the study of plant and animal life, while the seventh and eighth grades are given the study of soils, rocks, and minerals. A detailed course in physics has been laid out for the ninth grade. The success and value of the entire course in elementary science are dependent on the methods of teachers. If they pervert it into the simple acquisition of facts, or the communication of knowledge in isolated or illogical form, instead of using it to train the powers of observation and analysis, to foster the study and love of nature itself, and to furnish the basis of the expression of thought in language and drawing, it will fail utterly of its object.

In reading and literature the suggestions are based on the conviction that children cannot learn to read and cannot acquire a love for good reading,—objects of equal and exceeding importance,—without being brought in some way into contact with books, with good literature, to a much larger extent than is provided by the meagre excerpts of the ordinary school reader. Hence, books that may be read to children by the teacher to excite the interest and whet the appetite, books that may be read by children with profit, and selections for memorizing from standard writers, are suggested. Teachers are urged

to co-operate with the Public Library authorities and avail themselves and their classes of the generous opportunities thus offered, and by all the means in their power to cultivate the taste and the desire for what is best in the great world of books.

The course in drawing is given in a general plan, on which detailed directions will be based and sent to teachers by the Supervisor from time to time.

Sewing continues to be taught in grades four to eight inclusive along the lines of the old course. Boys of these grades are to be occupied during the sewing hour with mechanical drawing.

The work in music, which for some reason was not given in the old course, is outlined in detail in the revised course of study.

Certain general principles that are fundamental in teaching penmanship are presented, without any attempt to limit or direct the work of the several grades.

One hour each week is to be devoted to physical training in each grade according to the Swedish system of gymnastics as laid down in Enebuske's Day's Orders.

The courses for the High schools are substantially those that have been in use since the establishment of the separate schools. The characteristic feature of the English High School course is in the number of elective studies and in the wide range of subjects covered.

In general, it may be remarked regarding the revised elementary course that it provides a sufficiently large variety of subjects for the symmetrical development of all the faculties and powers of the child, that it will fit him within a reasonable time for any lines of higher instruction, and that it affords a fairly practical equipment to those children whose circumstances force them out of school prematurely.

Of course everything depends upon the skill, and ability, and judgment displayed by teachers in the use they make of the course. Blind, unreasoning adherence to it is to be deprecated. Its flexibility is to be recognized. It is for guidance rather than for government. The circumstances of the class and of the in-

dividual are always to be considered, and no sacrifice of their interests for the sake of a system or a curriculum is to be expected. The good of the child is the end-all and the be-all of the school, and to this policies, programmes, and theories are subservient and must give way. They can never serve as a substitute for the intelligent, discriminating teacher upon whose judgment, character, and inspiration the success of our schools chiefly depends.

THE PUBLIC LIBRARY AND THE SCHOOLS.

In the last annual report mention was made of plans in contemplation for placing the schools more directly in touch with the Public Library. Through the interest and courtesy of its trustees and librarian the teachers of the schools and the pupils of the upper grades have been accorded every facility for the use of books. Cards have been issued to teachers enabling them to draw an unlimited number of books for class and schoolroom use. Pupils of the two upper grammar grades have received cards, and selected books have been delivered and collected each week at each of the large school buildings at the expense of Library funds. The number of books delivered at each building since the plan was initiated is as follows:—

SCHOOL.	Books.	Deliveries.	Ave. No. Books.
Prescott . . .	916	28	33
Edgerly . . .	1,659	28	59
Pope . . .	795	28	28
Knapp . . .	1,464	28	52
Bell . . .	564	24	24
Morse . . .	951	28	34
Glines . . .	69	2	35
Highland . . .	834	28	30
Forster . . .	1,302	28	47
Hodgkins . . .	385	11	35
Total . . .	8,939	..	..

In addition to books supplied in this way, sets of from twenty-five to fifty books have been sent to several of the schools for the home reading of pupils in lower grades, the Principal assuming the responsibility for their careful use and safe return. Under direction of teachers who are deeply interested in its success, this method of circulating books has proved of great advantage. The books are carefully selected, and comprise works of history, biography, travel, and the best fiction. They are in constant circulation. Parents read them as well as the children. The studies of the school are supplemented and reinforced. A taste for good books is being cultivated, and the lives of the children are made better and happier. It is to be hoped that this plan may be widely extended, and it would be competent and equitable for the School Department to share the burden of expense.

A taste for good reading is an invaluable acquisition. With the majority of children it is an acquired rather than a natural taste. In all children, however, it may be cultivated and developed by careful and judicious training. A few homes furnish this training abundantly. Some others give a modicum of it. If the great majority of children ever receive it, however, it must be given them by cultured and sympathetic teachers in the public schools. Indeed, such teachers can always do this work much better than tired and overworked fathers and mothers.

It will not do to defer the solution of the problem until the later years of school life. It is then often too late to form a habit and to divert the thought and attention into this from other less profitable channels. It must be remembered that the great majority of children complete their education at or before the age of fourteen. The task must be begun early. Long before the child has learned to read he may be attracted and charmed by hearing read or told the rhymes, and jingles, and fables, and stories that have delighted a dozen generations and become classic literature for the young. What he hears must first of all be attractive; it must be what he likes. Emotions of pleasure must be excited, and the child led on step by step from the lower to the higher. He may begin, if you please, with the

old, old nursery rhymes that always stir the interest and fancy of childhood. These may be followed by the fairy stories and myths and fables so often told and yet always so fresh and new, in which the teachings of long experience are embodied, "legends and tales which form the traditional stock of the fancies and sentiments of the race." With these the child may first become familiar by hearing, and when he learns to read them for himself he greets them as old friends. Passing from the fairy land of fancy and fable the child enters the wide and boundless fields of literature. Without a guide he is soon lost. Within the limits of his intelligence and understanding he must hear and be led to read the best books,—books that will broaden his interest and knowledge of the world in which he lives, that will excite and develop the imagination, that will quicken his sympathies with what is right and true, that will kindle in him moral sentiment and purpose, and that will lead him to imitate in character and action what is pure and ennobling. To stimulate and direct his choice he needs a friend, cultured, sympathetic, helpful. In no other part of her work can the true teacher render such permanent, such invaluable aid. In no other way can her influence be so lasting or so powerful.

When we reflect on how little some boys and girls read, when we think that in many, perhaps the majority of cases, the few lines through which they stumble in the school reading exercises cover it all, we cease to wonder that books have no attraction for them. To learn to read and to love to do it, children must read not lines but pages, not pages but volumes. They must be saturated with reading. They must be supplied with good literature in profusion. They must be educated as carefully, and patiently, and wisely along these lines as along any. No richer reward can any teacher ask than that which accompanies and follows wisely directed efforts in this direction.

EVENING SCHOOLS.

Four evening schools have been in session during the year. At the request of the pupils in attendance, the Prescott Evening School was continued during the first two months of 1896.

October 1, schools were opened at the Prescott, Bell, and Highland buildings. The school at the Highland was closed in the middle of November from lack of patronage. During the second week in October, in response to petition, a school was opened at the Forster building. The attendance at these schools has been fairly good. The usual number dropped out early in the season, leaving the purposeful and determined ones free to enjoy the advantages of the schools undisturbed. So much interest has been manifested by the pupils that in answer to their request the schools are to resume their sessions after the holidays.

The evening school for industrial and free-hand drawing was opened October 1, with unusually large numbers. In each department there are three classes, the most advanced free-hand class occupying the drawing-room of the English High School. The law requires the city to provide instruction in industrial drawing for all persons over fifteen years of age. As the English High School furnishes both industrial and free-hand drawing as optional studies, pupils from that school were excluded from the evening classes. Grammar school pupils were refused permission to attend the free-hand class, this form of drawing being taught in the day school. The report of attendance and cost will be found elsewhere.

SPECIAL TEACHERS.

The Board employs six special teachers or supervisors. The director of drawing gives her entire time enthusiastically to the work, visiting each Grammar and Primary school once in three weeks. Friday of each week is reserved for special visits where most needed. No books are used. Outlines of work for each grade are issued in detail in September and January of each year, drawings being made in pencil or color on loose sheets. Great interest and enthusiasm are manifested from lowest grades to highest and gratifying progress is made. Similar outlines in mechanical drawing are issued for the guidance of boys in those grades in which sewing is taught. To show the character of the work two outlines are appended.

OUTLINE OF LESSONS IN DRAWING.

GRADE III.

FROM JANUARY TO JUNE, 1897.

Seventeenth Week.	{ Study of green group — yellow-green, blue-green : collect examples. Drawing from an elliptical object. Illustrative sketch involving ellipse.
Eighteenth Week.	{ Study of oval as plane figure ; teach axis : collect objects and illustrations. Study of oval objects and illustrations. Practice oval movement.
Nineteenth Week.	{ Review green group : classify examples. Drawing from oval object. Sheet VII. Illustrative sketch involving oval.
Twentieth Week.	{ Comparative review of curvilinear figures.
Twenty-first Week.	{ Study of blue group — green-blue and violet blue : collect examples. Study isosceles triangle as plane figure, with details. Study equilateral triangle.
Twenty-second Week.	{ Practice drawing the different triangles. Drawing from triangular object. Sheet VIII.
Twenty-third Week.	{ Review blue group : classify examples. Illustrative sketch involving an isosceles or equilateral triangle. Drawing of circular object involving judgment of proportion. Sheet IX.
Twenty-fourth Week.	{ Drawing of elliptical object involving judgment of proportion. Sheet X. Drawing of oval object involving judgment of proportion. Sheet XI.
Twenty-fifth Week.	{ Teach violet group — blue-violet, red-violet. Review of plane figures studied. Test ability to draw them of different proportions and in different positions.
Twenty-sixth Week.	{ Review violet group : classify examples. Review of borders and rosettes, using terms repetition and alternation.

Twenty-seventh Week.	{ Study and drawing of selected borders or rosettes. Sheet XII.
Twenty-eighth Week.	{ General review of hues. Teaching of surface patterns and their uses: collect ex- amples. Study of collected examples, using terms — unit, repeat, space.
Twenty-ninth Week.	{ Classify greys — warm, cool, neutral. Drawing of selected surface pattern. Sheet XIII. Practice in making original surface pattern.
Thirtieth Week.	{ Study of contrasted harmony: collect examples. Drawing of surface pattern in contrasted harmony. Sheet XIV.
Thirty-first Week.	{ Collection of leaves and flowers resembling geometric figures. Sketching of collected examples.
Thirty-second Week.	{ Drawing of leaves and flowers previously studied. Sheet XV.
Thirty-third Week.	{ Study of space division.
Thirty-fourth Week.	{ Practice drawing grasses and simple spring plants.
Thirty-fifth Week.	{ Study of decorative arrangements. Practice making decorative arrangements, simplest spring plants in oblongs and circles.
Thirty-sixth Week.	{ Drawing of decorative arrangement. Sheet XVI.

GRADE VI.

SEPTEMBER AND OCTOBER, 1896.

NATURE.

Leaves, buds, flowers, seed vessels; *e. g.*, maple, oak, wild cucumber, clover.

Sheet I. Drawing of leaf and bud, flower, seed-pod, etc., of one plant. (Class exercise.)

Sheet II. Drawing of similar twig. (Individual work.)

Sheet III. Drawing of details of different plant. (Class exercise.)

Sheet IV. Drawing of details of another plant. (Individual work.)

NOVEMBER, DECEMBER, JANUARY, 1896-7.

MODELS AND OBJECTS. Foreshortening (continued).

Effect of level. *a.* On unequal circles.*b.* On concentric circles.

Convergence.

One set of retreating edges { bounding horizontal plane.
" " vertical "

Models: Hollow cylinder, cube, half cylinder.

Objects: Common applications of above models.

Review. — Foreshortening of circle.

Teach. — *Convergence*.

Study. — Real and apparent centres in circles.

Unequal circles at different levels.

Concentric circles.

Convergence of one set of retreating edges.

a. Horizontal.*b.* Vertical.

Sheet. — Collected illustrations of objects involving principles studied.

Sheet V. Sketches of hollow cylinder standing in different positions below eye. (Class exercise.)

Sheet VI. Drawing of cup and saucer below eye level. (Individual work.)

Sheet VII. Sketches of cube showing front and top faces only. Sketches of half cylinder showing two vertical faces and top. (Class exercise.)

Sheet VIII. Drawing of box or book below eye. (Individual work.)

Sheet IX. Drawing of group to illustrate principles studied. (Individual work.)

Sheet X. Drawing of door partly open or of window. (Individual work.)

Sheet XI. Drawing from memory of model or object studied.

NOTE. Drawings to be preserved.

Encourage sketching out of school.

Two persons direct the work of the schools in music. The supervisor of the six lower grades devotes three days each week to the work of supervision, most of the instruction being given by class teachers. She visits each room once in three weeks, and reserves Thursday afternoons for special visitations. At the beginning of the school year the Introductory Third Music Reader of the Normal Series was placed in the hands of sixth

grade pupils, and books were supplied to lower classes in sufficient numbers to render the inconvenient and troublesome exchange of books among several classes unnecessary.

The musical instructor of the High schools and of the three higher Grammar grades serves the city four days weekly. He gives a half-hour's instruction each week to the 7th, 8th, and 9th grade classes, and spends two periods in each of the High schools. A notable musical event in the school history of Somerville was the production early in June of Gaul's Cantata of the Holy City, by the pupils of the English High School, under the direction of Mr. Hadley, their instructor. The object was the raising of funds for the art-decoration of the school building. Mr. Hadley has scored many musical triumphs during his long connection with our schools, but it was the unanimous opinions of critics that on the occasion of which we speak all previous efforts were eclipsed. The music was of a high order, and its rendition was worthy of professional organizations.

Sewing is taught by two special teachers to the girls of the 5th, 6th, 7th, and 8th grades, 1,449 receiving this instruction at the present time. Each class has a lesson of one hour each week. The interest and profit attending this work are noteworthy. Its practical value is generally recognized, but its educational value commends it more strongly and justifies the expense incurred, which is 83 cents per year for each girl taught.

The sixth specialist employed is the supervisor of penmanship, who gives the city his entire time, instructing each class below the High schools a half-hour every three weeks. The subject of penmanship has been discussed at some length in the last two school reports. If all the regular teachers could catch the spirit and enthusiasm of the supervisor, the vexed question would be speedily solved. No school-room work yields so low a rate of interest on the investment in the opinion of teachers who want to see immediate results. All along the line the finished product is desired. And yet no one expects to hear Beethoven's sonatas rendered by a school-girl. We must take longer views. To train the muscles of the arm and hand to respond with invariable precision to the call of the will, requires

much time and long practice. The plan pursued is the one followed for two or three years. It is the movement method. Attention is fixed on form in the Primary grades, movement being disregarded. Correct movements are demanded in the middle grades and form is sacrificed. In the 8th and 9th grades the result is seen, pupils then writing in an easy style with rapidity and freedom, the product being legible and reasonably graceful. It is the expectation that habits will be so fixed in the 7th grade children that movement and form can be combined in a pleasing product. Notwithstanding the over-claims made for vertical writing, there is much to be said in its favor, especially for little children. What its effect will be upon writing in High schools and in business remains yet to be seen. It is significant that commercial colleges, which live by supplying what the business public demands, have thus far made no use of the new system. As to writing in our own schools, we wait with expectant interest the result of the efficient supervising work of the year.

KINDERGARTENS.

In June last the Board adopted a rule authorizing district committees to open kindergartens wherever they deem it wise, not exceeding one for each 800 pupils in the Grammar and Primary schools of the district. At the present time four kindergartens are in operation, in the Jackson, Prospect Hill, Glines, and Hodgkins schoolhouses. The attendance for December is as follows:—

	Jackson.	Prospect Hill.	Glines.	Hodgkins.	Total.
Number belonging . . .	41	39	41	45	166
Average attendance . . .	28	31	32	37	128
Per cent. of attendance . .	69	85	80	84	78.5
Average age of Children .	4 y. 5 m.	4 y. 7 m.	4 y. 4 y.	7 m.	4 y.

In each of these a trained kindergartner and an assistant are employed, the regular annual salary list being \$3,425. The regular daily session extends from 9 o'clock to 12. Teachers are expected to devote such parts of their afternoons as may not

be occupied in preparation for their regular work to visitation at the homes of their pupils. The object of these visits is to acquaint mothers with the aims and character of kindergarten work and to secure their application of its principles and the use of its occupations in the home training of the children. This is recognized as an important part of the kindergartner's work, for while it is always true that the home and the school should co-operate in the work of education, it is especially necessary that mothers should understand the methods and principles of the kindergarten that they may apply them in the home life of the children, which extends over so much larger portion of the time. Then, too, some of the best work of the kindergarten is done with children from poor or unfortunate homes, a personal acquaintance with which often results in marked benefit. Indeed, the kindergarten by common consent is an important factor in uplifting the children of poverty and want. Its power is not only educational but moral, and one of the chief arguments for the establishment and maintenance of kindergartens is the salutary influence they exert in the direction of cleanliness and virtue and the healthful substitutes they offer for occupations that are pernicious and that lead towards vicious lives.

But when the limit of ten kindergartens allowed by the present rule is reached but a small portion of the children between three and a half and five years of age whom it is desirable to benefit will be accommodated.

The value of the kindergarten having been recognized by its incorporation into our school system, we must be prepared to extend its advantages, for until all children receive the preparatory training which the kindergarten offers it will be impossible to tell how Primary schools can best be modified to meet the results which it produces.

MANUAL TRAINING.

The four forms that manual training takes in public schools are drawing, sewing, wood-working, and cooking. The first two of these, drawing and sewing, are now as well established features of our curriculum as writing and history. No one

would think of eliminating either, for it could not be done without obvious loss. The third form of manual training, and in some respects the most valuable, wood-working, we have introduced into the High School course where a relatively small number only can share its advantages. The board has voted, also, to introduce a course in domestic science, one feature of which shall be cooking, but lack of suitable accommodations has thus far prevented. These facts show a recognition on the part of our school authorities of the importance and value of wood-working and cooking as elements in a well-rounded course. Should they not be introduced lower in the grades, so that larger numbers and those whose circumstances do not permit High School attendance, but who would receive from them a greater degree of profit, may enjoy their advantages? Should not the girls of the 8th and 9th grades have instruction in cooking, not only for its practical but also for its educational value? The boys of these grades would greatly profit by a simple course in wood-working. It is feasible to provide accommodations in three different parts of the city for work along these lines. If it shall be thought that the expense involved is not too great, steps should be taken at once to provide needed rooms and equipment that the departments may be opened during the next school year. It may be remarked that under existing conditions the further introduction of manual training into our schools would raise the compulsory school age from fourteen years to fifteen, and this of itself would be a decided advantage to a large class of children.

The claims on which manual training in schools rests are briefly summarized as follows:—

“The period of special aptitude for the different forms of manual dexterity ends with the fourteenth or fifteenth year. The area of the brain which controls the hand and arm is much larger in proportion than that for any part of the body except the face, giving the hands as much importance as the eye, the ear, or the tongue. An untrained hand is a great disadvantage. One mind receives and discharges impressions best through the medium of things; another through words, the symbol of things.

They should have an equal chance. Just as good brain power is used in one case as the other. Manual skill is as difficult to acquire as mathematics or a language. Almost all higher education is planned for non-mechanical classes, which constitute about one-fourth of the population of the country. Much of the traditional school work makes for bodily destruction; manual training for bodily growth and muscular control. Manual training tends to prevent waste of time. The average student is capable of direct mental application about three hours daily. It supplies a knowledge of the facts and forces of the tangible, living, active world of to-day, its buildings, machinery, processes, just as other branches do for history, literature, and science. It develops sympathy for manual labor. It multiplies interest and broadens the field from which to select a final calling. It reinforces other departments. It stimulates perception, logical thinking, good judgment, the productive imagination. It encourages truthfulness, self-control, firmness of will, and is a strong factor in ethical culture."

EFFICIENCY OF THE SCHOOLS.

When it seems necessary for any of our citizens to extol the city of his residence two things are pretty sure to be said,— "It is the banner no-license city of the Commonwealth," and, "It has excellent schools." The first statement is indisputable, and the fact is a potent element of our growth and prosperity. To what extent is the second statement true? Certainly the residents of a city that pays annually \$200,000 for their maintenance have a right to demand good schools. An inquiry as to what constitutes a good school and to what extent the ideal is realized in Somerville is certainly pertinent and may possibly be interesting.

And first among the pre-requisites of good schools we may mention good school buildings. Not that within the narrow and unattractive and unhealthful limits of many a "little red schoolhouse" on a country hillside is never found a school fit to rank among the best in the character of the men and women

it develops. But in this beginning of the twentieth century the conviction everywhere prevails that buildings in which children are educated and in which their most impressionable years are spent, should themselves be educative and minister to the growth of the finer elements of taste and character. They should be attractive in appearance and indicative of the public spirit and culture of the community in which they are found. The grounds and fences and walks about them should be tastefully arranged and kept in neat and orderly condition. The buildings should be commodious, well heated and lighted, furnished with an abundance of fresh air, provided with the best sanitary accommodations, kept always fresh and clean, and so arranged throughout as to minister to the health and comfort of their occupants. For in these later days it has come to be recognized that the bodily, the physical welfare of the young is of primary importance. To what extent do our twenty-five school buildings meet the ideal requirements of good schools? Today they house nearly 9,000 children. One thousand of these children occupy seven wooden buildings, ranging in age from 28 to 53 years and averaging 40 years. Some of them were built when Somerville was a country village. One was made for a chapel. Three have been once enlarged. Six of them are stove-heated. All are practically without means of ventilation except what windows and doors afford. They are dark, unattractive, primitive, anachronous structures, which must soon disappear at the demand of patrons who will insist on equal rights and privileges with their fellow-citizens. In pleasing contrast with these conditions, another thousand children are housed in five four-room buildings, all erected within ten years, and all, with perhaps a single exception, answering the demands as to light, heat, fresh air, sanitation, and comfort. The remaining 7,000, seven-tenths of the whole number, occupy thirteen large, modern, well-arranged structures, all but one being well ventilated, having an average valuation of \$55,000. If we except the condition of the grounds and surroundings of certain of them, these buildings are an ornament and a credit to the city. It is doubtful whether

any other municipality in the state can equal us in this respect. Taking, therefore, our school buildings on the whole as a criterion, it may safely be said that Somerville has good schools.

A second essential to a good school is a complete equipment in the line of material appliances for instruction. This includes text-books, reference books, maps, charts, globes, moulding and number tables, blackboards, laboratory apparatus of all kinds, pictures, objects, and specimens for illustration. In most of these respects our schools are fairly well supplied. There is a lack of reference books and of wall maps, but as a rule every child is supplied gratuitously with everything that he can possibly need for his school work. With two or three exceptions but little yet has been done towards the systematic decoration of our schoolrooms. The influence in the classroom of good pictures and works of art in forming and educating the taste is generally recognized, but the means to provide them have thus far been wanting. Several of the gentlemen after whom schools have been named have made contributions of pictures. A fund of several hundred dollars has been raised for works of art for the English High School. Graduating classes generally leave behind them some art-gift to their school. In these ways something is being slowly accomplished towards making the rooms attractive.

Another pre-requisite, if schools are to maintain a high standard of efficiency, is the interest and co-operation of parents and of citizens generally. These manifest themselves in regularity and punctuality in the attendance of pupils, in their spirit of obedience and conformity to rule, and in the general disposition to second and supplement efforts of the teachers, in the homes. Our records show very little absence from school save from compulsory causes. We have some truancy, to be sure, which can generally be traced to absence or weakness of parental restraint, but on the whole this vice prevails to a very limited extent. The tardiness of pupils is comparatively rare, less last year than one in a thousand. Parents call children away from school duties by dismissal perhaps as little as possible, once in seventeen hundred oppor-

tunities being the rate for this year. Almost all parents are in sympathy with teachers. They are indisposed to criticise them, realizing the difficulties of controlling and directing the impulses and tendencies of human nature. Then, too, the press and the clergy, the makers and regulators of public opinion, are in sympathy with our schools and their work. The public at large, citizens who have no personal interest at stake, are always found on the right side in educational affairs. They choose capable and judicious men for the School Board. They vote ungrudgingly whatever moneys are needed for their wise and economical support. They do not seek for the appointment of incapable friends to the teaching force or attempt to control the management of affairs, but ask that the schools shall be committed to the hands of those only who by temperament and training and experience are able to conduct them successfully. In other words, our schools have in a large degree the strength of public opinion behind them for their support, and this is an element of success never wanting when schools are at their best.

Again, that schools may be good it is necessary that the work laid out for them in courses of study should be wisely planned. It must be especially adapted to the needs of the community. It must have in mind the true objects of education. It must give training and secure the full and harmonious development of all the powers and faculties of mind and body. It must fit a minority for the successful prosecution of higher courses of study. It must qualify the majority to enter upon the duties of life with a practical knowledge of its affairs, with power to transact its ordinary business with intelligence and success, and it must give them tastes and habits that shall lead into the full enjoyment of what is purest and best. Above all, it must tend to give that stanchness and solidity of principle and character that shall make loyal citizens and honorable men and women. It is believed that the work laid out for our schools fulfils these requirements in large measure.

Once more, an essential condition of a good and successful school is a strong and efficient organization and adminis-

tration. There must be a unity of purpose and aim. There must be the spirit of harmony and co-operation. There must be perfect loyalty and willingness to surrender personal preference for the general good. There must be a strong controlling force that shall direct and unify and harmonize the work of the entire school. There should be some one with knowledge and experience to direct and strengthen, to instruct and restrain, to inspire and quicken the teaching force. There should be at the head one whose influence reaches every pupil, who secures obedience and respect, who arouses enthusiasm, whose urbanity and tact reduce friction to its lowest terms, who has quick sympathy with children, who considers the individual rather than the system, who knows and regards the rights and interests of parents, who widens his horizon by constant contact with what is new and worthy, and who gives his whole strength and thought to the conservation of the varied interests under his charge. The person responsible for all these things, for the wise and kind, yet forceful administration of the school, is its principal. Somerville has twelve supervising principals upon whom this burden of administration is laid, and to whom is committed in large degree the welfare of its schools. Not all, perhaps, if any, have yet attained the ideal. Not any are satisfied with what falls short of the best, and if interest and effort and devotion, if a sense of the responsibility resting upon them, if a knowledge of what the public expects of them, and if the realization of the opportunities which lie before them count for anything, then may we fully expect that in this essential feature our schools well deserve to be called excellent.

But lastly; what we have thus far described is but a lifeless body, inert, passive, unless animated by a soul, and the soul of a school is its teacher. It is she that gives it life and character, that directs its activities into upward channels, that controls its aspirations and its destiny. Buildings, equipment, public interest, curriculum, organization,—all these in themselves are weak and profitless without the presence and influence of good teachers. And what constitutes good teachers? It were easier in answer to mention Thomas Arnold, Mark Hopkins, Mary

Lyon. But these were among the geniuses of the profession. Their examples furnish inspiration and standards, and while we rarely meet their equals we do find many teachers who are animated by the same high aim and purpose and who are striving, within their limitations, to attain the same results. Great teachers are born, not made. Nevertheless ordinary gifts and graces may be so developed and trained and directed as to give their possessor high rank in this noble calling. There is no substitute for the element of personal character in the teacher. This lacking, there can be no true success. And besides, there must be the power to make this character felt upon others. Given this two-fold gift,—character and the power to influence,—and teachers can lead their pupils whithersoever they will. Without attempting a full inventory of the qualities of good teachers mention may be made of a few. They must have quick and strong sympathy and love for children, they must study them and know them not in the abstract, but in the concrete, not in mass, but individually, that they may help according to need. Pity children under charge of teachers cold, hard, unsympathetic, in whom the milk of human kindness has soured!

It goes almost without saying that good teachers must have broad and thorough academic and professional education and training. The advances made during the last quarter-century in educational methods, in subjects of instruction, in the true order of presentation, in the inclusion of manual, and art, and domestic, and physical training, in the study of the child himself, and in whatever pertains to his physical, mental, and moral interests, have kept pace with the progress made in the fields of science and invention. The times, therefore, demand a more thorough training and a broader knowledge not only of the subjects of instruction, but also of the mind and the powers that are to be developed and taught. Novices and apprentices are not tolerated. The path to the teaching profession now leads through high schools, normal schools, training schools, professional schools. Colleges now give pedagogical courses, and everywhere the need of higher and better qualifications in those who seek to teach is recognized.

In good teachers we expect professional enthusiasm, leading to continual reading and study, keeping them abreast of educational movements. The tendency in the great body of teachers is towards conservatism. Those long in service may grow insensible to the demands of progress, they become self-satisfied, they have a disrelish for what is new, they do not respond readily to fresh requirements and to the introduction of new lines of work. They need to keep in touch with what is going on in the educational world. To meet the necessities, institute courses, lectures, summer schools, professional books and periodicals are found in abundance. The readiness with which such aids are welcomed is a fair criterion for judgment.

Good teachers possess the power to secure and hold the attention of those they teach. Attention is founded on interest, and how to awaken and retain the interest of children in their work from day to day and week to week is the great problem of the schoolroom. The teacher who can do this and at the same time employ methods that will make children independent, self-helpful, and inquiring rather than simply receptive, one who can increase power as well as impart instruction, has attained an enviable measure of success.

Without prolonging the consideration of this subject we may remark that good teachers are considerate of the wants and feelings of the child, ready to co-operate with parents, mindful of what the child does and is when out of sight; in manners, in dress, in self-control, in speech, a fit subject for imitation; possessed of unbounded patience and common sense; not given to sharp and unkind and sarcastic remarks; wisely meting out discipline with penalties commensurate with offences; always loyal to school authorities and interests; never unconscious that example and character outweigh the wisest words; promoting health and spirits and good temper by suitable recreation; drawing inspiration and strength from original sources and depending for recompense on the consciousness of duty faithfully performed from highest motives.

It would be strange indeed if every teacher in our city should be found to meet fully the ideal requirements. It would

be stranger still if all fell short. It is gratifying to feel that by far the larger number approximate these high standards and are earnestly striving to reach them. When some test can be found to show the influence of mind upon mind, when the power of soul over soul can be measured, then and then only can a teacher's service be justly estimated and rightly rewarded.

Somerville has no interest comparable for a moment with those of its public schools, whether considered from a financial or from a higher point of view. They require the larger share of the annual expenditures, and upon them more than upon all other agencies are we dependent for whatever elevates, refines, enriches. The children of today are the citizens of tomorrow. If our fair city continues to hold the high rank for temperance, for good order, for public spirit, which it has proudly maintained for the last twenty-five years, if its future citizens are to be intelligent, self-governing, loyal, patriotic, virtuous, honored, it will be because our public schools maintain their high standard and still receive the generous support and the wise direction which have characterized their past.

In conclusion the superintendent wishes to express his appreciation of the earnestness and fidelity with which supervisors, principals, and teachers have labored for the success of the schools, to extend his thanks to the members of the Board for their generous forbearance and support, and to congratulate the citizens on the wisdom and good judgment which their representatives have displayed in administering the important trusts committed to their care.

Respectfully submitted,

G. A. SOUTHWORTH,

Superintendent.

Somerville, December 28, 1896.

MANUAL TRAINING REPORT.

SOMERVILLE ENGLISH HIGH SCHOOL.

SOMERVILLE ENGLISH HIGH SCHOOL

MANUAL TRAINING REPORT.

NOVEMBER, 1896.

By EVERETT W. TUTTLE, SUPERINTENDENT.

To meet the requirements of the Act of 1894, preparation was made by the Somerville School Board during the summer of 1895 for including manual training as one of the elective branches in the course of study of the new English High School, which opened in September of that year.

Two rooms, each thirty by thirty-two feet, have been equipped, one for bench work in wood and one for mechanical drawing. The drafting room is furnished with twenty-four tables, each fitted with five general lockers and one individual locker, and with spaces for five drawing boards. The general locker contains two triangles, one irregular curve, rule, triangular scale, pencil file, and tack-lifter. These articles are used in common by all pupils who work at the table. Each individual locker contains a set of drawing instruments, pencil, eraser, pen, blotting-paper, and piece of chamois-skin; these tools are used by one pupil only. Keys for all lockers are kept on key-boards in a cupboard at one side of the room. Each table is also furnished with T square, triangular rest for elevating drawing-board, and ink-stand for red and black inks.

With this equipment, five classes, of twenty-four each, can be accommodated. Additional sets of drawing instruments and drawing boards are kept in cases at one side of the room for extra classes. At present six classes are receiving instruction. Other articles of furniture are a large cabinet for drawing paper and completed drawings, a case for drawing models and special instruments, three sliding blackboards which may alternately be brought into view, a marble-top sink, and a teacher's desk.

In an adjoining room are a blue-printing frame, a sink, and all necessary equipment for making blue prints. All the blue prints used in the shop work are made and mounted upon paste-boards by pupils. The instructor's platform is raised sufficiently to enable pupils in all parts of the room easily to witness a demonstration. Around two sides of the room is arranged a rack, upon which is kept a constantly changing exhibit of pupils' work.

The carpentry room is designed to accommodate a class of seventy-two, in three divisions of twenty-four each. There are twelve double benches and one instructor's bench. Each side of a bench contains three drawers for individual tools and one for the tools used in common by all pupils at that side of the bench. The individual set of tools comprises one jack plane, one smoothing plane, one block plane, four chisels and three bits. There is also space for unfinished work. In the general locker are kept all remaining tools. At the ends of the bench are hung a brush, board screen, bench hook, and bench board.

Quick-action vises and iron bench-stops complete the equipment. The tools at hand for each pupil's use are twenty-eight in number. Keys for the drawers are kept on key-boards. A large cabinet contains blue prints of each lesson and numerous special tools. In the room are also a grindstone, sliding blackboards, and teacher's desk.

For the clay-modelling and wood-carving, which form the latter half of the first year's work, a large zinc-lined bin for the clay and three racks for holding unfinished clay models are provided. When the pupils in the carpentry room are not at work, the modelling and carving are done in that room. A specially designed modelling easel is placed upon each bench. The lower part of the easel forms a compartment holding the modelling tools, six in number, a small sponge, cup, and a dish for clay. Drawings and plaster casts are provided as models from which to work. For the wood-carving, small benches of various heights rest upon the regular benches and are firmly held in place by the vises. Work is clamped to the projecting edges of the carving benches. For each pupil a set containing ten carving

tools, a slip stone, and a strap are provided. These sets are kept in the individual lockers of the large benches during the carving term; at other times they are stored away with the carving benches.

Adjoining the bench room is a room containing a sink fourteen feet long, with places for hot and cold water, and seventy-two lockers, in each of which a boy keeps a towel and soap, his coat when at work, and his apron when not at work. Boys deposit twenty-five cents each for use of the keys; the locks are master-keyed.

During the summer of 1896 two additional rooms, each thirty by thirty-two feet, were fitted up for the second year work, one for wood-turning and pattern making, and one for moulding. As in the carpentry room, provision has been made for a class of seventy-two, in three divisions. Twenty-four benches are equipped each with a lathe, of ten inches swing and three and one-half feet bed, and one general and three individual lockers. The general locker contains an oil can and lathe accessories, the individual lockers each nine turning tools. Facing each lathe is a pattern-making bench, fitted with quick-action vise and bench stop, and one general and three individual lockers. The equipment of the lockers is practically the same as in the carpentry room, although it has been modified to meet the requirements of pattern work. The key-board system is used, and all locks are master-keyed. Other furnishings are a grindstone, emery wheel, apparatus for heating glue, show-cases for finished work, sliding blackboards, and cabinet containing blue prints, special tools, and supplies.

A part of the adjoining room has been fitted up as a machine room and furnished with a circular saw table with cut-off and rip saws, buzz planer, hand saw, and scroll saw. Power is furnished by a thirteen horse-power electric motor. The shafting is supported entirely upon posts imbedded in concrete beneath the floor, and no appreciable jar or noise is noticed in the school rooms directly above. The remainder of this room is fitted up as a foundry with all appliances for practical moulding and core-making. Twenty-four moulder's benches are furnished each

with cup flask, rammer's trowel, and other moulding tools; two additional benches are especially equipped for core-making. Soft metal is used for pouring and is melted in a gas-blast furnace; the blast is supplied by a pressure blower driven from the motor. Cores are baked in a specially designed sheet-iron oven.

Adjoining these two rooms are a sink twelve feet long and a set of lockers similar in arrangement to those adjoining the carpentry room.

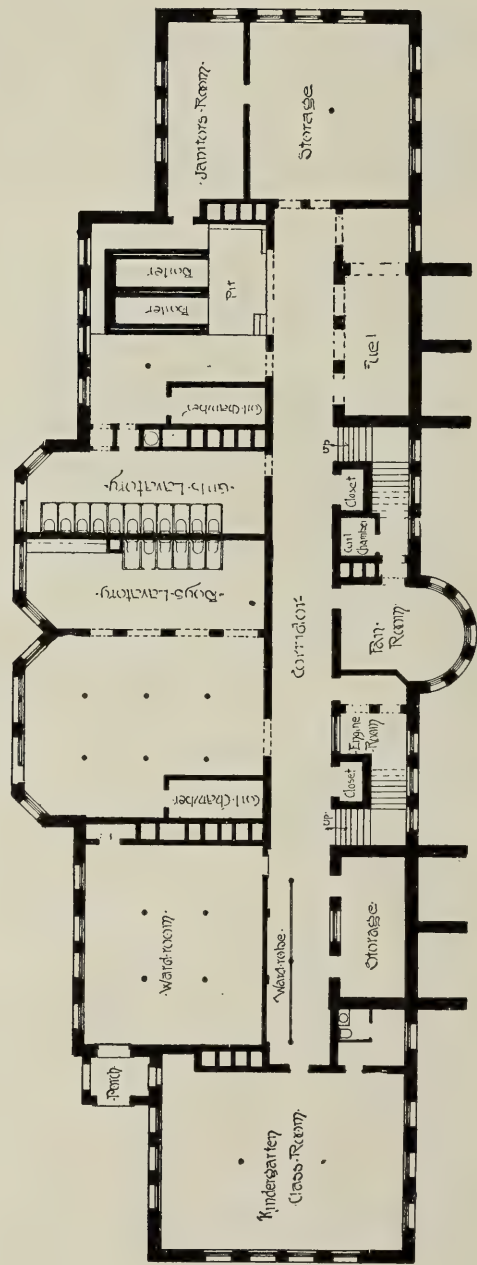
A large part of the work of equipping the manual training department has been done by the pupils as regular class work. They have constructed,—three racks, each to hold thirty-six clay models, twenty-five clay modelling easels, twenty-four moulding benches, twenty-five wood-carving benches, a table for holding oil stones and straps, a cupboard for patterns, one hundred clay-modelling boards, seventy-five moulding boards, seventy-two drawing-boards, twenty-four mallets and forty-eight rammers for foundry, amounting in value of labor to over five hundred dollars.

During the summer vacation of 1896 four of the regular pupils, under the direction of the instructor and assisted by one other workman, did the entire work of fitting up the pattern-making room and foundry. The floors were laid, posts and overhead timbers placed in position, shafting hung, machinery set up, belts laced, and everything placed in readiness for the work in these departments.

The cost of equipment for two years of work as outlined above has been about eight thousand dollars.

Seventy-two boys elected manual training the first year, and ten additional chose drawing alone. The second year one hundred and fifteen received instruction in all departments, of which number six were girls.

An extension of the course to include forging, bench work in metals, and machine-shop practice, covering two additional years, is contemplated. This will necessitate another building, as all available space in the English High School is now occupied. The present equipment has been designed with reference to the probability of its being removed, before many years, into another building.



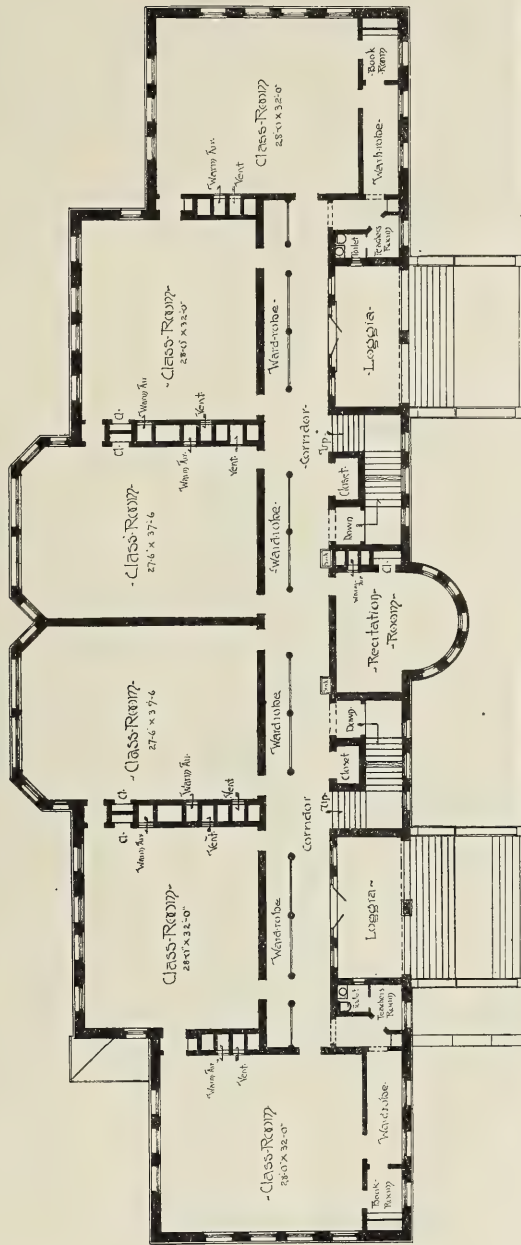
Basement Plan
Scale 1/2" = 1'-0"

Glines School.

A. H. Gould, Architect.



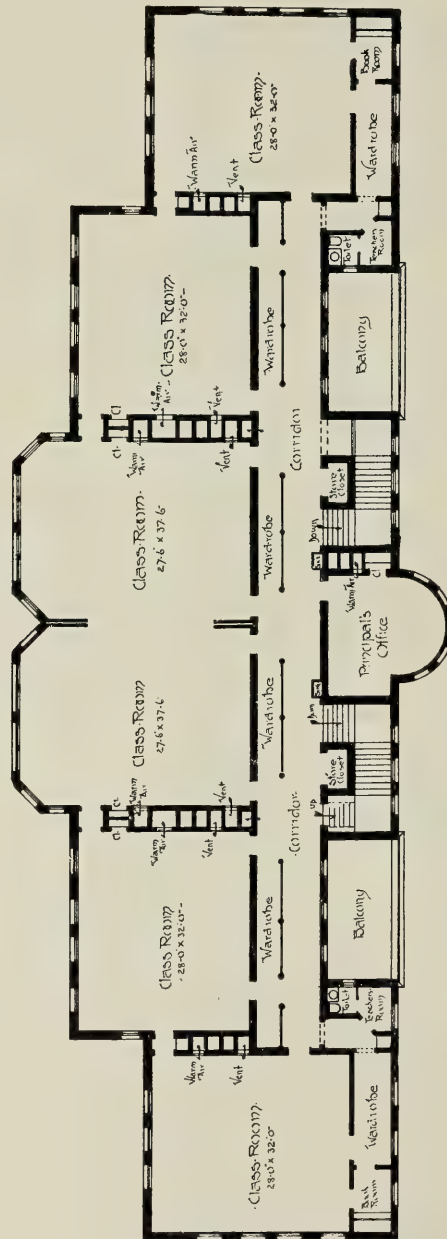
JACOB T. GLINES SCHOOL.



First Floor Plan
Scale: $\frac{3}{32}$ " = 1'-0"

Glines School.

A. H. Gould, Architect.



Second-Floor Plan
Scale 3/8" = 1'-0"

Glines School.

A. H. Gould, Architect.

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RECORD OF IMPORTANT EVENTS IN THE SCHOOL HISTORY OF SOMERVILLE FOR 1896.

- Feb. 24. Report of Committee on Schoolhouse Sanitation.
Mar. 30. Increase of salaries of High School teachers and
Grammar masters.
April 27. Adoption of order to prevent interruption of schools
in term-time by avoidable resignations.
April 27. Recognition of wisdom of increasing salaries of best
teachers to retain them.
May 20. Cantata of The Holy City by English High School
pupils.
June 8. Election of Arthur L. Doe Master of Hodgkins
School.
June 15. Complete revision of Rules and Regulations adopted.
June 22. Change in character of High School graduation exer-
cises.
July 13. Election of Winfred C. Akers Master of English High
School.
July 13. Election of Supervisor of Penmanship.
Sept. 8. Completion and opening of William H. Hodgkins
School.
Sept. 8. Extension of Manual Training Plant in English High
School.
Sept. 8. Opening of the Beech-street Training School.
Sept. 8. Completion of new ventilation system in Bell School.
Sept. 8. Completion of reconstructed sanitariums in Forster
School.
Sept. 22. Opening of Kindergarten in Hodgkins School.
Nov. 16. Completion and opening of Glines enlargement.
Nov. 30. Opening of Kindergarten in Glines School.
Dec. 7. Election of Mary E. Northup Master of Glines School.
Dec. 28. Adoption of Revised Course of Study.

TABLE 1.—SCHOOLHOUSES.

	NAME.	No. of Classrooms.	Rooms not occupied.	Size of Lot.	Valuation.	When built.	No. of years used.	Enlargements.
1	Latin High School	24	1	.....	\$50,000	1871	25	
2	English High	14	.	.....	140,000	1895	1	
3	Prescott	12	.	21,444	47,000	1867	29	
4	Edgerly	12	.	26,428	47,000	1871	25	{ 4 rooms added 1882 4 " " 1892
5	L. V. Bell	12	.	23,396	47,000	1874	22	
6	C. G. Pope	12	.	27,236	62,000	1891	5	
7	O. S. Knapp	13	.	24,517	47,000	1889	7	4 " 1894
8	Forster	12	.	27,499	47,000	1866	30	
9	Morse	12	.	29,109	47,000	1869	27	6 " 1890
10	Highland	12	.	23,260	47,000	1880	16	4 " 1891
11	J. T. Glines	13	.	28,800	65,000	1891	5	5 " 1896
12	Bingham	8	.	21,017	30,000	1886	10	4 " 1894
13	Prospect Hill	6	2	25,313	21,000	1848	48	4 " 1865
14	Davis	4	.	38,152	25,700	1884	12	
15	Bennett	4	.	20,560	10,600	1868	28	
16	Jackson	4	.	11,212	8,600	1861	35	
17	Cummings	4	.	11,300	15,700	1884	12	
18	Franklin	4	.	33,017	15,600	1846	50	2 " 1862
19	G. W. Durell	4	.	13,883	19,000	1894	2	
20	Burns	4	.	16,080	15,700	1886	10	
21	Lincoln	4	1	17,662	14,700	1885	11	
22	Beech Street	2	.	6,000	4,800	1872	24	
23	Cedar Street	2	.	.....	800	1843	53	{ Moved from Broad- way, 1868.
24	Hodgkins	12	.	35,034	60,000	1896	..	
25	Harvard	1	.	9,810	3,600	1851	45	{ Moved from Cherry street, 1867, from Kent street, 1871.
	Total,	192	4	....	\$911,800	...	..

(a) Six recitation rooms, a physical laboratory, three teachers' rooms.

(b) A chemical, a physical, a biological laboratory, three recitation rooms, a lecture hall, drawing room, two teachers' rooms, library and principal's office. Four manual training rooms and lunch-room in basement.

TABLE 2.—COST OF MAINTAINING SCHOOLS, 1896.

SCHOOL.	Instruction and Supervision.	Janitors, Water, Light, Heat.	School Supply Expenses.	Total.
Latin . . .	\$12,045.56	\$1,966.23	\$ 959.08	\$14,970.87
English High . .	21,722.06	3,794.55	6,177.10	31,693.71
Bell . . .	9,920.29	1,350.23	780.75	12,051.27
Edgerly . . .	9,992.15	1,505.92	839.80	12,337.87
Forster . . .	10,014.91	1,443.71	775.24	12,233.86
Highland . . .	10,402.80	1,480.47	866.47	12,749.74
Hodgkins . . .	3,864.27	571.66	1,382.36	5,818.29
Knapp . . .	10,335.33	1,905.63	855.08	13,096.04
Morse . . .	9,941.28	1,534.73	759.42	12,235.43
Pope . . .	9,852.16	1,462.74	616.48	11,931.38
Prescott . . .	10,165.16	1,333.10	770.50	12,268.76
Bingham . . .	5,527.51	853.52	272.12	6,653.15
Glines . . .	7,091.82	1,350.34	924.84	9,367.00
Burns . . .	3,419.63	488.01	134.00	4,041.64
Cummings . . .	2,598.38	469.43	142.09	3,209.90
Davis . . .	2,854.20	452.23	147.05	3,453.48
Durell . . .	2,631.69	484.44	119.27	3,235.40
Franklin . . .	2,740.38	381.83	98.63	3,220.84
Lincoln . . .	3,045.25	750.47	156.09	3,951.81
Bennett . . .	2,519.38	301.35	109.10	2,929.83
Jackson . . .	2,788.69	331.92	96.11	3,216.72
Prospect Hill . .	2,296.35	394.61	346.56	3,037.52
Beech Street . .	1,369.56	235.75	76.43	1,681.74
Cedar Steet . .	1,315.75	176.56	38.85	1,531.16
Harvard . . .	693.15	106.18	11.56	810.89
Evening Schools .	2,403.50	465.00	146.30	3,014.80
Total . . .	\$161,551.21	\$25,590.61	\$17,601.28	\$204,743.10

TABLE 3.—COST PER CAPITA OF MAINTAINING SCHOOLS, 1896,
BASED ON AVERAGE NUMBER BELONGING.

	Instruction and Supervision.	Janitors, Water, Heat, Light.	School Supply Expenses.	Total.
Latin	\$46.51	\$7.59	\$3.70	\$57.80
English High	44.24	7.73	12.58	64.55
Bell	18.10	2.46	1.42	21.98
Edgerly	17.91	2.70	1.51	22.12
Forster	17.54	2.53	1.36	21.43
Highland	17.66	2.51	1.47	21.64
Hodgkins	17.97	2.66	6.43	27.06
Knapp	18.01	3.32	1.49	22.82
Morse	17.18	2.65	1.31	21.14
Pope	17.95	2.66	1.12	21.73
Prescott	18.22	2.39	1.38	21.99
Bingham	16.07	2.48	0.79	19.34
Glines	16.77	3.19	2.19	22.15
Burns	14.37	2.05	0.56	16.98
Cummings	14.60	2.63	0.80	18.03
Davis	15.68	2.48	0.81	18.97
Durell	13.71	2.52	0.62	16.85
Franklin	16.03	2.23	0.58	18.84
Bennett	15.46	1.85	0.67	17.98
Jackson	17.11	2.04	0.59	19.74
Lincoln	14.52	3.59	0.75	18.86
Prospect Hill	19.30	3.32	2.81	25.43
Beech Street	13.70	2.36	0.76	16.82
Cedar Street	22.69	3.04	0.67	26.40
Harvard	15.07	2.31	0.25	17.63
High Schools	\$45.02	\$7.68	\$9.51	\$62.21
Gram. and Primary	17.44	2.70	1.43	21.57
All Schools	20.00	3.17	2.18	25.35

TABLE 4.—ANNUAL COST OF MAINTAINING THE SCHOOLS
FOR A SERIES OF YEARS.

Amounts are given to the nearest dollar and include what has been paid for maintaining day and evening schools of all grades.

YEAR.	Average Member- ship.	Instruction and Supervision.	Water and Light.	Heating.	Janitors.	School Supplies.	Total.
1885	4,904	\$ 79,506	\$ 728	\$4,965	\$ 4,000	\$ 8,449	\$ 97,648
1886	4,985	83,542	624	4,929	4,194	6,676	99,865
1887	5,198	86,713	765	6,475	5,084	7,526	106,563
1888	5,488	88,967	953	7,121	5,892	7,421	110,354
1889	5,956	96,466	805	6,081	6,448	9,903	119,703
1890	6,486	104,184	1,004	5,586	7,539	10,371	128,684
1891	6,502	114,066	1,047	8,032	8,544	13,899	145,588
1892	7,035	124,232	1,064	7,148	9,794	12,944	155,183
1893	7,217	128,720	1,014	8,312	10,160	10,137	158,333
1894	7,212	132,919	958	9,673	10,686	10,919	165,155
1895	7,617	144,113	1,398	8,796	11,581	15,063	180,951
1896	8,077	161,551	1,469	9,962	14,160	17,601	204,743

TABLE 5.—ANNUAL COST PER CAPITA OF MAINTAINING
SCHOOLS

FOR A SERIES OF YEARS.

[Based on the average membership.]

YEAR.	Instruction and Supervision.	Janitors, Water, Heat and Light.	School Supply Expenses.	Total.	Assessors' valua- tion of City.	Ratio of cost of school main- tenance to valuation.
1885	\$16.21	\$1.98	\$1.72	\$19 91	\$24,878,400	.00392
1886	16.76	1.94	1.34	20.03	26,003,200	.00384
1887	16.68	2.37	1.45	20.50	27,469,300	.00388
1888	16.21	2.54	1.36	20.11	28,756,400	.00384
1889	16.20	2.24	1.66	20.10	30,004,600	.00399
1890	16.06	2.18	1.60	19.84	32,557,500	.00395
1891	17.54	2.71	2.14	22.39	36,843,400	.00395
1892	17.66	2.56	1.84	22.06	38,093,100	.00407
1893	17.84	2.70	1.40	21.94	41,773,600	.00379
1894	18.43	2.96	1.51	22.90	44,142,900	.00374
1895	18.92	2.86	1.98	23.76	46,506,300	.00390
1896	20.00	3.17	2.18	25.35	49,013,050	.00418

TABLE 6.—AMOUNT SPENT ANNUALLY FOR ALL SCHOOL PURPOSES

FOR A SERIES OF YEARS.

YEAR.	For New Schoolhouses.	For Repairs and Permanent Improvements.	For Maintaining Schools.	Amount spent for all school purposes.
1885	\$19,185	\$ 7,052	\$ 97,648	\$113,885
1886	15,515	8,706	99,865	114,086
1887	14,839	13,636	106,563	135,038
1888	4,996	13,994	110,354	129,344
1889	20,167	14,225	119,703	154,095
1890	75,775	19,168	128,684	223,627
1891	84,902	14,847	145,588	245,337
1892	12,679	17,734	155,183	176,001
1893	22,809	12,440	158,333	193,582
1894	82,206	*44,764	165,155	292,125
1895	87,680	15,651	180,951	284,282
1896	61,016	†33,240	204,743	298,999

*Including heating apparatus in both High School buildings.

†Including ventilating apparatus at the Bell and sanitariums at the Forster.

TABLE 7.—POPULATION OF SOMERVILLE.

1842	1,013	1880	24,985
1850	3,540	1885	29,992
1860	8,025	1890	40,117
1865	9,366	1895	52,200
1870	14,693	1896	54,400
1875	21,594		

TABLE 8.—SCHOOL CENSUS, 1896.

Number of children in the city between 5 and 15 years of age, as reported by the truant officer, on the first of May :

1885	.	.	.	.	5,608	1891	.	.	.	.	6,800
1886	.	.	.	.	5,296	1892	.	.	.	.	7,191
1887	.	.	.	.	5,722	1893	.	.	.	.	7,601
1888	.	.	.	.	5,959	1894	.	.	.	.	8,040
1889	.	.	.	.	6,135	1895	.	.	.	.	8,510
1890	.	.	.	.	6,469	1896	.	.	.	.	8,885

BY DISTRICTS FOR 1896.

DISTRICT.	1895.	1896.	Increase.	Increase Per cent.
East Somerville . . .	1,504	1,528	24	1.60
Prospect Hill . . .	3,089	3,167	78	2.53
Winter Hill . . .	1,335	1,430	95	7.12
Spring Hill . . .	1,311	1,418	107	8.16
West Somerville . . .	1,271	1,342	71	5.59
Total	8,510	8,885	375	4.41
Between 8 and 14 . . . ,	5,242	5,205	37*	0.71*

*Decrease.

TABLE 9.—ATTENDANCE OF THE PUBLIC SCHOOLS, 1896.

Rooms occupied in December.	School.	Annual Enrollment.	Average Membership.	Average Attendance.	Per cent of Attendance.	No. Cases of Tardiness.	No. Cases of Dismissal.	No. Cases of Punishment.	No. attending in January.	No. attending in December.	Average No. to classroom in December.	No. over 15 years of age.	No. between 8 and 14 years of age.
9	Latin	272	259	252	97.4	70	107	0	262	268	29.8	224	14
15	English High	520	491	471	95.9	85	110	0	469	572	38.1	452	13
12	Bell	671	548	532	97.1	104	137	19	547	584	48.5	47	446
12	Edgerly	738	558	534	95.8	97	64	14	594	573	47.7	52	411
12	Forster	725	571	544	95.3	85	34	17	603	566	47.2	69	362
12	Highland	771	589	558	94.8	144	207	14	632	560	47.0	73	395
12	Hodgkins	77	197	188	95.5	60	38	1	0	499	45.4	5	28
13	Knapp	822	574	555	96.7	129	112	9	569	615	47.3	31	410
12	Pope	723	549	528	96.2	186	54	39	568	562	46.8	21	428
12	Morse	726	579	547	95.0	163	114	7	581	620	52.0	42	466
12	Prescott	745	558	535	95.9	109	66	27	604	545	45.3	55	434
8	Bingham	470	344	323	93.7	122	58	24	353	347	43.3	1	199
13	Glines	544	419	397	94.8	98	9	9	400	555	46.3	9	306
4	Burns	343	238	222	93.3	214	108	1	271	211	52.7	0	180
4	Cummings	264	178	167	93.7	97	93	11	173	188	47.0	0	88
4	Davis	253	182	170	93.6	63	25	17	175	206	51.5	1	112
4	Durell	264	192	181	94.2	126	40	3	195	182	45.5	0	119
4	Franklin	208	171	165	96.5	36	30	9	176	182	45.2	3	202
3	Lincoln	335	209	193	92.2	123	62	3	255	120	40.0	1	170
4	Bennett	203	137	126	92.1	49	28	13	126	152	38.5	0	57
4	Jackson	184	119	106	89.2	128	15	15	135	112	37.3	0	63
2	Beech Street	144	100	93	93.0	89	17	0	97	106	53.0	1	60
2	Cedar Street	81	58	54	92.7	47	9	1	62	61	31.0	0	29
4	Prospect Hill	91	85	81	95.4	11	11	4	79	108	36.0	3	83
1	Harvard	92	46	42	91.5	37	12	0	43	41	41.0	0	5
4	Kindergartens	316	126	99	78.6	271	0	0	129	166	41.5	0	0
194	Total	10,582	8,077	7,663	94.9	2,743	1,560	257	8,098	8,703	46.3	1,090	5,080
	1895	9,914	7,617	7,255	95.2	2,736	1,791	292	7,609	8,191	48.3	1,035	4,874

TABLE 10.—STATISTICS OF HIGH SCHOOLS FOR SCHOOL YEAR
SEPTEMBER 3, 1895, TO JUNE 25, 1896.

	Latin.	English.	Both.
Number of days school kept	186	186	186
Number enrolled	247	426	673
Average number belonging	257	456	712
Average daily attendance	250	437	687
Per cent of attendance	97.43	95.87	96.43
Tardiness	84	115	199
Dismissals	168	136	304
In Class I. September	69	213	282
June	64	171	235
In Class II. September	87	130	217
June	76	103	179
In Class III. September	58	90	148
June	57	81	138
In Class IV. September	53	75	128
June	53	71	124
Total, September	267	508	775
June	250	426	676
Number graduates, male	14	16	30
Number graduates, female	36	51	87
Total	50	67	117
Average age, male	{ 18 yrs., 6 mo.	{ 18 yrs., 11 mo.	{ 18 yrs., 8.7 mo.
Average age, female	{ 18 yrs., 7 mo.	{ 19 yrs., 3 mo.	{ 18 yrs., 11.8 mo.
Number of graduates entering college	31	5	35
Number of graduates entering M. I. T.		5	5
Number of graduates entering normal schools		6	6
Cost of instruction	\$11,702.	\$20,102.	\$31,804.00
Cost of supplies and equipment	1,094.96	10,583.78	11,678.74
Total cost	12,796.96	30,685.78	43,482.74
Cost per capita of instruction	45.57	44.13	44.65
Cost per capita of supplies and equipment	4.26	23.24	16.40
Total cost per capita	49.83	67.37	61.05

TABLE 11.—PUPILS IN HIGH AND GRAMMAR SCHOOLS.

Number of persons in the city on the first day of May, 1896, between 5 and 15 years of age, 8,885.

Number between 8 and 14 years of age, 5,205.

	High Schools.	Grammar and Primary Schools.	Kinder- gartens.	Total.
Annual enrollment . . .	792	9,474	316	10,582
Average membership . . .	750	7,201	126	8,077
Average attendance . . .	723	6,841	99	7,663
Per cent of attendance . . .	96.4	95.0	78.6	94.9
Number cases of tardiness . .	155	2,317	271	2,743
Number cases of dismissal . .	217	1,343	.....	1,560
Number cases of punishment . .	.....	257	.....	257
Membership, January, 1896 . .	731	7,238	129	8,098
Membership, December, 1896 . .	840	7,697	166	8,703
Average number to a teacher . .	28	46.3	41.2	.....

TABLE 12 — NUMBER OF SCHOOLS AND PUPILS BY DISTRICTS.

December 15, 1896.

	No. of Schools.	Number of Teachers.			Number of Pupils.	Number in Ninth Grade.	Average Number to a Room.
		<i>a</i>	<i>b</i>	<i>c</i>			
East Somerville	28	2	28	2	1,324	71	47.3
Prospect Hill .	53	3	53	2	2,401	101	45.3
Winter Hill .	33	2	33	1	1,509	77	45.7
Spring Hill .	23	1	22	5	1,131	50	49.2
West Somerville	33	2	33	2	1,496	95	45.3
Totals .	170	10	169	12	7,861	394	46.3

a. Principals of ninth-grade grammar schools.

b. Regular teachers.

c. Salaried assistants.

TABLE 13.—PUPILS BY GRADES, DECEMBER, 1896.

SCHOOL.	GRADE.	TEACHERS.			PUPILS.			Average Age.		Single promo- tions, June, 1896.	Double promo- tions in 1896.	Never in school before.	From other city schools.	From other schools.
		Men.	Women.		Boys.	Girls.	Totals.	Years.	Months.					
			Regular.	Assistants.										
Latin	Thirteenth .	..	..	..	19	34	53	17	11	....	..	....	0	4
"	Twelfth . .	..	..	..	27	42	69	17	2	....	..	....	0	3
"	Eleventh . .	..	..	..	35	32	67	16	0	....	..	....	3	1
"	Tenth . . .	..	..	..	39	40	79	15	1	....	..	....	77	0
	Total . . .	3	6	..	120	148	268	16	5	....	..	....	80	8
English	Special . . .	..	..	..	5	16	21	20	3	....	..	....	0	3
"	Thirteenth .	..	..	..	30	46	76	18	7	....	..	....	0	3
"	Twelfth . .	..	..	..	33	65	98	18	3	....	..	....	8	5
"	Eleventh . .	..	..	..	59	90	149	16	6	....	..	....	3	15
"	Tenth . . .	..	..	..	92	136	228	15	6	....	..	....	206	20
	Total . . .	8	13	....	219	353	572	..	..	....	..	....	217	46
	Total High School .	11	19	..	339	501	840	..	..	.. .	..	....	297	54
Grammar	Ninth . . .	8	12	0	172	222	394	14	11	367	6	0	102	33
"	Eighth . . .	..	10	0	217	266	483	14	1	372	12	0	168	54
"	Seventh . .	..	17	0	349	370	719	13	3	561	11	0	152	75
"	Sixth . . .	..	16	0	367	390	757	12	4	574	29	0	242	103
"	Fifth . . .	..	17	1	428	423	851	11	5	643	10	0	289	112
"	Fourth . . .	1	21	0	460	498	958	10	2	752	14	0	317	158
	Total Gram- mar . . .	9	93	1	1,993	2,169	4,162	..	..	3,269	82	0	1,270	535
Primary	Third . . .	..	20	0	484	469	953	9	3	730	11	0	222	128
"	Second . . .	..	24	4	572	534	1,106	7	10	868	48	3	244	178
"	First . . .	..	30	5	785	693	1,478	6	5	907	30	1,065	243	292
	Total Prim- ary . . .	..	74	9	1,841	1,696	3,537	..	..	2,505	89	1,068	709	598
	Total Gram- mar and Primary	9	167	10	3,834	3,865	7,699	..	..	5,774	171	1,068	1,979	1,133
	Kindergarten	..	4	4	68	98	166	4	5	....	..	....	0	0
	Special Teach- ers	2	4	..	....	....	....	..	..	....	..	....	....	....
	Grand Totals	22	194	14	4,241	4,464	8,705	..	..	5,774	171	1,068	2,276	1,187

COMPARATIVE TABLE SHOWING THE DISTRIBUTION OF PUPILS AMONG THE GRADES, AND AVERAGE AGES AT THE END OF THREE DECADES.

	1876.		1886.		1896.	
	Age.	Per Cent.	Age.	Per Cent.	Age.	Per Cent.
Grade 13 . . .	18 0	0.96	18 5	1.07	18 4	1.51
“ 12 . . .	17 2	1.01	17 6	1.30	17 10	1.96
“ 11 . . .	16 4	1.46	16 4	1.88	16 4	2.53
“ 10 . . .	15 9	2.14	15 8	2.58	15 5	3.61
“ 9 . . .	14 10	3.17	14 9	4.61	14 11	4.62
“ 8 . . .	14 0	4.33	14 0	5.60	14 1	5.67
“ 7 . . .	13 4	6.69	13 1	7.86	13 3	8.44
“ 6 . . .	12 4	10.34	12 5	9.85	12 4	8.89
“ 5 . . .	11 3	11.00	11 6	10.25	11 5	9.99
“ 4 . . .	10 3	13.41	10 6	11.44	10 2	11.25
“ 3 . . .	8 5	11.83	9 3	11.85	9 0	11.19
“ 2 . . .	7 7	12.99	7 10	12.81	7 10	12.99
“ 1 . . .	6 3	20.68	6 4	18.90	6 5	17.35

An inspection of this table will show that there has been a gradual increase in the relative number of pupils in the seven upper grades and a corresponding decrease in the six lower grades, indicating that pupils remain longer in school. It will also be seen that there has been little change in the average ages of pupils during the last twenty years.

TABLE 15.—ADMISSIONS TO FIRST GRADE IN APRIL AND SEPTEMBER, 1896.

SCHOOL.	April.	Sept.	On Half Time.	SCHOOL.	April.	Sept.	On Half Time.
Bell . .	13	34	....	Burns . .	16	20	34
Edgerly .	27	43	27	Cummings .	19	27	....
Forster .	21	36	....	Davis . .	12	34	....
Highland .	20	29	20	Durell . .	18	25	25
Hodgkins .	....	35	....	Franklin .	....	....	....
Knapp . .	28	71	....	Lincoln .	20	26	30
Morse . .	22	51	36	Bennett .	10	40	....
Pope . .	25	41	....	Jackson .	8	24	....
Prescott .	21	30	31	Beech Street	8	20	....
Bingham .	29	54	....	Cedar Street	4	11	....
Glines . .	23	46	....	Harvard .	13	25	....
Prospect Hill	....	....	....	
				Total .	357	722	203

Average age of April children, 5 years, 6 months.

Average age of September children, 5 years, 7.2 months.

Of all admitted during 1896, 5 years, 6.8 months.

TABLE 16.—TRUANT STATISTICS.

	1895.	1896.
Number of visits to schools	615	364
Absences investigated	499	312
Cases of truancy	98	116
Truants arrested	9	16
Sent to Truant School	8	8

Increase in cases of truancy 18 per cent. as compared with 1895.

TABLE 17.—GRAMMAR SCHOOL GRADUATES, 1896.

SCHOOL.	Number receiving Diplomas.	Number Certificated for High School.	Number that entered the Latin School.	Number that entered the English School.	Total.
Prescott .	38	32	5	20	25
Edgerly .	46	38	5	30	35
Pope .	37	29	11	13	24
Knapp .	35	31	6	16	22
Bell .	34	33	13	17	30
Forster .	72	60	12	42	54
Morse .	38	36	6	24	30
Highland.	70	70	16	45	61
Total .	370	329	74	207	281

TABLE 18.—ATTENDANCE IN EVENING SCHOOLS, 1896.

		Prescott.	Bell.	Forster.	Highland.	Total.
Enrolled . . .	Male	42	175	80	70	367
	Female	20	39	65	28	157
	Total	62	214	145	98	524
Ave. Membership .	Male	29	66	35	20	150
	Female	13	23	36	14	86
	Total	42	89	71	34	236
Ave. Attendance .	Male	23	48	25	10	106
	Female	8	16	27	8	59
	Total	31	64	52	18	165
Per cent of Attendance		73.8	71.9	73.2	52.9	69.9
No. of Teachers .	Male	2	2	3	2	9
	Female	1	5	3	1	10
	Total	3	7	6	3	19
No. of Sessions		75	42	38	26	

Cost of Instruction, Evening Schools . . . \$1,330.96
 Cost per pupil 8.07

EVENING DRAWING SCHOOL, SEASON OF 1895—'96.

	INDUSTRIAL.	FREE-HAND.	Total.
Enrolled	73	47	120
Average Membership	48	45	93
Average Attendance	40	21	61
Per cent Attendance	83.3	46.7	65.6
Number of Teachers	4	2	6

Cost of Instruction, etc. \$1,043.50
 Cost of Supplies 240.51
 Total Cost \$1,284.01
 Cost per Capita \$21.05
 Cost per Evening 28.53
 Number of Sessions 45

TABLE 19.—GRAMMAR SCHOOL GRADUATES

FOR A SERIES OF YEARS.

	Prescott.	Bell.	Forster.	Morse.	Highland.	Edgerly.	Pope.	Knapp.	Total.	Average Membership of Grammar and Primary Schools.	Per cent of Average Membership Graduating.	Entered High School.	Per cent entering of those Graduating.
1885	51	73	28	30	29				211	4,531	4.65	155	73.46
1886	60	66	26	23	22				197	4,584	4.29	133	67.51
1887	52	67	28	37	37				221	4,635	4.76	146	66.06
1888	54	64	34	41	50				243	4,849	5.01	156	64.19
1889	59	91	48	42	41				281	5,109	5.50	169	60.14
1890	54	106	45	56	57				318	5,568	5.71	184	57.86
1891	44	73	41	55	44				296	6,062	4.88	199	67.23
1892	41	36	75	49	45	39	36	39	370	6,035	6.13	228	61.62
1893	40	60	48	63	67	46	36	38	398	6,525	6.09	240	60.30
1894	39	29	79	66	68	41	35	32	389	6,674	5.82	253	65.04
1895	36	32	58	63	73	42	36	34	374	6,955	5.37	255	68.18
1896	38	34	72	38	70	46	37	35	370	7,201	5.14	281	76.00
	568	731	582	563	603	263	180	178	3,668	68,728	5.34	2,339	65.40

TABLE 20.—ATTENDANCE STATISTICS
FOR A SERIES OF YEARS.

DECEMBER.	ENROLLMENT.	Average Membership.	Average Attendance.	Per cent of Attendance.	Number of Tardinesses.	Ratio of Tardiness to average Attendance.
1885	6,276	4,904	4,627	94.4	2,480	0.536
1886	6,350	4,985	4,678	93.8	2,834	0.606
1887	6,605	5,198	4,879	93.8	2,699	0.553
1888	7,262	5,488	5,174	94.0	2,938	0.549
1889	7,757	5,956	5,585	93.8	2,780	0.498
1890	7,878	6,485	6,075	93.6	3,133	0.516
1891	8,510	6,502	6,091	93.7	3,182	0.522
1892	9,120	7,035	6,608	93.9	3,181	0.481
1893	9,632	7,217	6,790	94.1	3,375	0.497
1894	9,387	7,212	6,840	94.8	3,000	0.419
1895	9,913	7,617	7,255	95.2	2,736	0.377
1896	10,582	8,077	7,663	94.9	2,743	0.358

TABLE 21.—MEMBERSHIP, ETC., OF HIGH SCHOOL

FOR A SERIES OF YEARS.

YEAR.	Average Membership All Schools.	Largest Number in High School.	Per Cent. of Average Membership of all Schools.	Number of Graduates of High School.	Per Cent. of Average Membership of all Schools.
1867	2,157	119	5.51	7	0.32
1868	2,285	141	6.17	17	0.75
1869	2,480	158	6.37	25	1.01
1870	2,639	165	6.25	16	0.65
1771	2,549	161	6.31	33	1.29
1872	2,799	186	6.64	21	0.75
1873	3,217	190	5.91	28	0.87
1874	3,265	198	6.06	26	0.79
1875	3,515	213	6.06	31	0.88
1876	3,712	226	6.09	33	0.81
1877	3,788	227	5.91	37	0.98
1878	3,992	250	6.26	31	0.78
1879	4,169	246	5.90	34	0.82
1880	4,278	254	5.93	27	0.63
1881	4,064	256	6.29	34	0.84
1882	4,263	280	6.57	33	0.77
1883	4,438	278	6.26	43	0.97
1884	4,804	315	6.55	46	0.96
1885	4,904	385	7.85	46	0.94
1886	4,985	374	6.70	56	1.12
1887	5,198	387	7.44	53	1.02
1888	5,488	435	7.92	60	1.09
1889	5,956	444	7.45	67	1.12
1890	6,485	487	7.51	60	0.93
1891	6,502	535	8.23	68	1.05
1892	7,035	577	8.20	80	1.14
1893	7,217	626	8.67	82	1.14
1894	7,274	691	9.50	111	1.52
1895	7,617	775	10.17	92	1.21
1896	8,077	858	10.62	119	1.47

TABLE 22.—RESIGNATIONS OF TEACHERS, 1896.

SCHOOL.	Teacher.	Time of Resignation.	In Service.
English High	Frank H. Beede.	June 30.	1 yr.
" "	Robert B. Smith.	June 30.	1 yr.
Edgerly	Carrie A. Colton.	Dec. 1.	3 yrs., 6 mos.
Forster	Adelaide F. Eaton.	June 30.	2 yr.
"	Elizabeth A. Page.	April 1.	5 yrs., 6 mos.
Glines	Ursula M. Willard.	June 30.	2 yr.
Highland	Jennie S. Westcott.	April 1.	3 yrs., 7 mos.
"	Annie R. Cox.	Nov. 1.	12 yrs., 2 mos.
"	Alice L. Hayward.	Dec. 1.	3 yrs., 9 mos.
Knapp	Nellie A. Hamblin.	Sept.	14 yrs.
"	Grace M. White.	March 1.	6 yrs.
Morse	Genevieve Allen.	June 30.	2 yrs.
"	Charlotte Duguid.	June 30.	2 yrs.
Pope	Minnie Partridge.	June 30.	1 yr.
Prescott	Sarah W. Turner.	May 1.	3 yrs., 2 mos.
"	Adelaide Reed.	June 30.	19 yrs.
Bingham	Carrie E. Fay.	June 30.	7 yrs., 6 mos.
Davis	Mrs. L. A. Burns.	June 30.	14 yrs., 5 mos.
Lincoln	Elizabeth Hodgdon.	June 30.	1 yr., 4 mos.
Beech Street	Ella M. Coops.	June 30.	4 yrs.

TABLE 23.—NEW TEACHERS ELECTED IN 1896.

SCHOOL.	Teacher.	Date.	Salary.
English High .	Winfred C. Akers . .	July 13.	\$1,800
“ “ .	Harry L. Jones . .	July 13.	1,000
“ “ .	Howard W. Poor . .	Sept. 28.	1,000
“ “ .	Susie L. Sanborn . .	Oct. 26.	800
Edgerly . .	Mary J. Richardson . .	April 27.	600
Forster . .	Fanny E. Jennison . .	May 25.	600
“ . .	Sarah L. Copeland . .	June 8.	600
Glines . .	Mary E. Northup . .	December 7.	1,800
“ . .	Maizie E. Blaikie . .	December 7.	600
Highland . .	Sarah C. Linscott . .	July 13.	600
Hodgkins . .	Arthur L. Doe . .	June 8.	1,850
“ . .	Katherine M. Fox . .	June 8.	600
“ . .	Alice S. Hall . .	June 15.	600
“ . .	Gertrude W. Leighton . .	June 15.	600
“ . .	N. Agnes Richardson . .	June 29.	600
“ . .	Edith W. Emerson . .	September 28.	600
“ . .	Bertha M. Jones . .	November 30.	600
“ . .	Marion I. Noyes . .	November 30.	600
“ . .	Alice M. Winslow . .	November 30.	675
Knapp . .	Florence W. Gooding . .	April 27.	400
Morse . .	Ella J. Holmes . .	April 27.	675
“ . .	Effie Stanley . .	November 27.	600
Pope . .	Susan G. Meldrum . .	December 28.	600
Prescott . .	Addie V. Hoyt . .	May 25.	600
Bingham . .	Emma F. Bradley . .	June 29.	600
“ . .	Mabel E. Perry . .	September 28.	600
“ . .	Rose O. Loughlin . .	December 28.	600
Davis . .	Frances Meldrum . .	June 8.	675
Lincoln . .	J. Louise Smith . .	June 8.	650
Prospect Hill . .	Cora F. Taylor . .	December 28.	600
Penmanship . .	William A. Whitehouse . .	July 13.	1,200

TABLE 24.—TRANSFERS OF TEACHERS AS TO SCHOOLS.

TEACHERS.	From	To
Mabel L. Bement . . .	Prospect Hill.	Pope.
Frances A. Wilder . . .	Pope.	Prospect Hill.
Flora A. Burgess . . .	Lincoln.	Hodgkins.
Gertrude Friend . . .	Highland.	Hodgkins.
Mary S. Lawrence . . .	Burns.	Hodgkins.
Ella J. Holmes . . .	Highland.	Morse.
Flora B. Rice . . .	Bingham.	Glines.
Belle J. Tiffit . . .	Bingham.	Glines.

TABLE 25.—LEAVE OF ABSENCE OF TEACHERS.

March	30.	Abbie A. Anderson, for three months.
March	30.	Mabel C. Mansfield, for three months.
September	4.	Lucia Alger, for one year.
May	1.	Alice L. Hayward, for five months.
January	1.	Minnie S. Turner, for six months.

TABLE 26.—TIME LOST BY TEACHERS IN 1896.

SCHOOL.	No. of Teachers.	Days Lost.	Days per Teacher.	SCHOOL.	No. of Teachers.	Days Lost.	Days per Teacher.
Latin	9	29	3.2	Burns	4.6	69	15.0
English	21	48	2.3	Cummings	4	1	0.3
Bell	13	29	2.2	Davis	4	23½	5.9
Edgerly	13	31	2.4	Durell	4	9	2.2
Forster	13	32½	2.5	Franklin	4	42	10.5
Highland	13	16	1.2	Lincoln	3.4	15½	4.6
Hodgkins	5.2	25	4.8	Bennett	4	5	1.3
Knapp	14	30	2.1	Jackson	4	22½	5.6
Morse	13	51½	3.9	Prospect Hill	3.4	9½	2.8
Pope	13	22	1.7	Beech Street	2	4½	2.3
Prescott	13	6½	0.5	Cedar Street	2	4½	2.3
Bingham	8	34	4.3	Harvard	1	0	.0
Glines	9.6	11½	1.2	Special	6	22	3.7
				Total	204.2	594	2.9

TABLE 27.—NUMBER OF TEACHERS FOR A SERIES OF YEARS.

YEAR.	High School.	Grammar School.	Primary School.	Special Teachers.	Assistants not in charge of room.	Men.	Women.	Total.
1885	9	63	48	1	0	10	111	121
1886	9	62	48	1	0	9	111	120
1887	10	64	48	1	0	9	114	123
1888	10	66	52	4	7	9	130	139
1889	10	60	56	4	7	10	127	137
1890	10	78	58	5	7	12	146	158
1891	12	86	63	5	13	12	167	179
1892	13	90	67	5	10	12	173	185
1893	14	88	63	5	19	12	177	189
1894	15	91	66	6	11	12	177	189
1895	28	91	73	5	12	19	186	209
1896	30	102	74*	6	14	22	208	230

*Four Kindergartners.

TABLE 28.—CHANGES OR ADOPTIONS OF TEXT-BOOKS.

Grade 2.—Lane's Stories for Children.

Grade 3.—Baldwin's Fairy Stories and Fables.

Grade 4.—Eggleston's Stories of Great Americans for Little Americans.

Grade 5.—Eggleston's Stories of American Life and Adventure.

Grade 6.—Introductory Third Music Reader, Normal Series.

Grades 7, 8, 9.—Essentials of Arithmetic, Book II., in place of Greenleaf's Complete Arithmetic.

Grade 9.—Carrington's Beacon Lights of Patriotism.

High.—Strang's Exercises in English, Evolution of Expression, Book II., Ellis's New Business Practice, Orndorf's Manual of Organic Chemistry, Qualitative Analysis as used in Georgetown College, Daudet's *La dernière Classe*, Corneille's plays, Moliere's plays, Legouve and Labiche's *La Cigale chez les Fourmis*, *Le Protege de Marie Antoinette*, Michelet's *La Prise de la Bastille*, Grueber's *Marchen und Erzohlungen*, Gerstacker's *Germelshausen*, Riehl's *Der Fluch der Schoenheit*, Freytag's *Aus dem Staat Friedrichs des Grossen*, Schiller's *Wilhelm Tell*, Heine's *Die Harzreise*, Goethe's *Dichtung und Wahrheit*, Carla and Helene's *Deutsches Lesebuch*, Meissner's *Aus meiner Welt*, Wenckebach's *Die schoensten deutschen Lieder*, Comstock's *Vergil's Aeneid*, Bennett's *Latin Composition*, White's *First Greek Book*.

TABLE 29.—GRADUATION EXERCISES, 1896.

HIGH SCHOOLS.

The graduation exercises of the High schools occurred on Tuesday evening, June 23, at the First Methodist Episcopal Church, in the presence of a large audience of parents and friends.

The exhibition, which had been regularly held for forty-four years, was superseded by an address to graduates by President Whitman, of Columbian University, the graduates furnishing the music, as usual.

At the close of the address, His Honor, Mayor Perry, presented diplomas to the 119 members of the graduating classes.

The graduation exercises were followed by a reception to the graduates and their parents given by the School Board, at which about 400 were present.

ORDER OF EXERCISES.

1. Overture
Hadley's Orchestra.
2. Selections from "The Holy City" Gaul.
a Tenor Solo, "No Shadows Yonder".
Quartette and Chorus.
b Trio (Unaccompanied), "At Eventide There Shall Be
Light."
c Chorus, "They that Sow in Tears."
- 3 Prayer
Rev. George S. Butters.
- 4 Part Songs (Female voices) H. K. Hadley.
a "Dreamy Lake."
b "The Miller."
- 5 Address to Graduates
Rev. B. L. Whitman, D. D.,
President of Columbian University, Washington, D. C.
- 6 Chorus, "The Miller's Wooing" Fanning.
- 7 Presentation of Diplomas
Mayor Albion A. Perry.
- 8 Four-Part Song, "Good-Night" Pinsuti.

LATIN HIGH SCHOOL.

GRADUATES.

Daisy Mae Bartlett.	Bertha Marie Louise Simon.
Ethel Bowman.	Mary Amesbury Sleeper.
Annie Marguerite Browne.	Hortense Fillmore Small.
Elizabeth Theresa Burrage.	Ruth Pearl Smith.
Grace Evelin Burroughs.	Ruth Tousey.
Esther Helen Carey.	Carrie May Tozier.
Josephine May Clark.	Maude Caroline Valentine.
Amy Lovett Cole.	Emma Frances Vello.
Bessie Adele Conway.	Susie Margaretta Vincent.
Ethel Helena Curtice.	Alice Alexander Welsh.
Nettie Amanda Dodge.	Sarah Alberta Yerxa.
Amy Louise Hamlet.	Walter Ingersoll Chapman.
Ethel Bryant Harmon.	George Appleton Clark.
Edith Parker Hunting.	John Felt Cole.
Edith Lizzie Hurd.	Myron Fred Cutler.
Alice Lillian Jansson.	Luther Gould Dearborn, Jr.
Lillian Edna Leavitt.	Charles Wilbur Goodrich.
Grace Agnes Mason.	Lyman Charles Hurd, Jr.
Amy Montgomery.	Charles Levi Joslin.
Gertrude Florence Niles.	Charles William Lavers.
Florence Ethel Noyes.	Louis Augustus Merry.
Anna Louise Pennock.	Ernest Lyman Mills.
Bessie Arolyn Roberts.	Nathan Clinton Proctor.
Viola Brett Russell.	Origen S. C. Teague.
Mercy Woodworth Sanborn.	Herman True Van Dusen.

ENGLISH HIGH SCHOOL.

GRADUATES.

Helen Edith Aldrich.	Louise Hillman Nims.
Bertha Preston Ames.	Bertha Ashley Myers.
Ida May Bradford.	Alice Maude Norton.
Elizabeth Clarke Brown.	Mary Baldwin Reed.
Mabel Helen Brown.	Ethel Grover Richardson.
Olive Evelyn Brown.	Grace Stuart Russell.
Helen Loretta Burkett.	Alice May Saben.
Eva Rose Butler.	Bertha Louise Skinner.
Florence Adelaide Colgate.	Alice Howard Spaulding.
Mary Ellen Crowley.	Janie May Thompson.
Bessie Maude Cullin.	Edith Alice Treadwell.
Nina Adele Cummings.	Abbie Maria Tribble.
Grace Bowers Dane.	Carolyn Elizabeth Vreeland.
Mary Florence Davis.	Helen Mabel Westgate.
Amy Wadsworth Freeman.	Nellie Maria Whipple.
Marion Louise Gooding.	Elizabeth Louise Wisdom.
Annie May Harvey.	Harriet Barnes Wisdom.
Leigh Hawes.	Grace Evelyn Young.
Ruth May Howe.	Guy Butler Aldrich.
Florence Dudley Hurter.	John Richard Ambrose.
Gertrude Carrie Joslin.	Karl Burroughs.
Ella Olive Josselyn.	John Patrick Casey.
Martha Emeline Keating.	Edward George Clapham.
Helen May Keller.	Clarence Alphonso Cushman.
Fannie Etta Krueger.	Henry Detrick Jouett.
Sarah Jessamine Lamont.	Robert Stanley Littlefield.
Ilma Adrienne Leman.	Wesley Artelle Maynard.
Loretta Cecil Lewis.	Philip Francis Moran.
Almena Jane Mansir.	John Joseph Murray.
Edith Frances Marshall.	George Fish Piper, Jr.
Jennie Mabel Berith McClos-	Herbert Stedman Richardson.
key.	Roland Sumner Robbins.
Ethel Florence Morang.	William Leonard Stevens.
Alberta Ray Morgan.	Fred Ashley Wiggin.

TABLE 30.—GRAMMAR SCHOOL GRADUATES.

PART FIRST.

The graduation exercises of the Grammar schools were held at the first M. E. Church, Union square, on Thursday evening, June 25. Three hundred and seventy graduates received diplomas at the hands of His Honor, Mayor Perry. The following is the

PROGRAMME.

1. Overture. "Blacksmith in the Woods." Michaelis
At night—In the Morning—At the brook—Morning-prayer—Forest-Smithy.
Hadley's Orchestra.
2. Singing. Two-part Song. "Evening Song." Rubinstein
Girls' Voices.
3. Prayer. Rev. John R. Gow.
4. Singing. Chorus. "Bridal Chorus." Cowen
5. Address to Graduates Rev. Alexander McKenzie, D. D.

PART SECOND.

6. Singing. Trio. "Rest Thee on This Mossy Pillow." Smart
Girls' Voices.
7. Presentation of Diplomas. Mayor Albion A. Perry.
8. Singing. Vocal March. "Onward." Geibel

PRESCOTT SCHOOL.

District Committee.

S. Newton Cutler. George S. Poole. Sanford Hanscom, M. D.

Principal, Samuel A. Johnson. Assistant, Anna M. Bates.

GRADUATES.

Charles Frank Ames.	John Hughes.
Frances E. Barrett.	Sylvester Augustus Keaney.
Hattie Vose Bearse.	Evie F. Kelley.
Frances Leigh Beckwith.	Agnes Frost Kennard.
William E. Bennett.	Lillian C. King.
Ella Wallace Bowker.	George William Magann.
Robert A. Bruce.	Mary A. Magann
George F. Burgess.	John A. McLean.
Fred S. Charlesworth.	Arvilla Pearl Peters.
C. Lillian Dakin.	Edward L. Phillips.
Julia Quimby Davis.	Ward Irving Pierce.
Jennie Louise wing.	John H. Preston.
George H. Fitzpatrick.	Florence M. Rae.
David L. Flannery.	Clara L. Sherman.
Howard S. Giles.	Grace Ada Small.
Josie Belle Glidden.	Bertha Staples.
Nellie E. Grant.	Addie M. Swett.
Ada Ellsworth Harris.	Lena M. Teakles.
Ralph H. Hosmer.	Edna Elliot Winship.

EDGERLY SCHOOL.

District Committee.

S. Newton Cutler. George S. Poole. Sanford Hanscom, M. D.

Principal, Charles E. Brainard. Assistant, Clara B. Cutler.

GRADUATES.

Harvey F. Bartlett.	Ralph R. Kitchen.
Horace D. Bradford.	James E. Lewis.
J. Percy Butler.	Gertrude V. Lomasney.
Beulah C. Chaffee.	Grace Newell.
Frederick H. Chapman.	Waldo H. Nickerson.
Georgiana M. Clark.	Ida B. Parent.
Walter C. Cole.	Ralph F. Perry.
Fred R. Condon.	Robert I. Peters.
Alice M. Davis.	Ralph F. Reynolds.
Grace L. Davis.	Louise E. V. Robert.
George R. Emerson.	Thomas J. Riley.
Clarence S. Farnum.	May E. Shattuck.
Ida M. Ferguson.	Eva P. Shaw.
Jennie F. Field.	Fred E. Shaw.
G. Blanche Frothingham.	Florence A. Small.
John F. Gill.	Harry A. Stone.
B. Frank Grant.	Frances B. Thomas.
Edgar W. Greene.	George W. Tuttle.
Gertrude S. Hamilton.	Mabelle T. Tyler.
Edith H. Hayden.	Edgar F. Walker.
Clarence I. Horton.	Edward H. Weeks.
Florence G. King.	Ethel C. Wheeler.
Grace L. King.	Mabel E. White.

CHARLES G. POPE SCHOOL.

District Committee.

Alvah B. Dearborn, M. D. Herbert A. Chapin.
Thomas M. Durell, M. D. George E. Whitaker.

Principal, George M. Wadsworth.

Assistant, Florence A. Chaney.

GRADUATES.

Homer J. Beaudet.	Ernest R. Kimball.
Francis A. Bennett.	Ethel H. Lambert.
Arthur W. Cushman.	Maude Locke.
Abbie L. Day.	Susie M. Lovering.
James F. Dennehy.	Louise M. Macquarrie.
Elizabeth V. Doherty.	Matilda J. L. Malatesta.
Joseph R. Doherty.	James L. Manning.
Ada Drouet.	William T. McDonald.
Philip J. Farrell.	Bernard W. McElroy.
Johanna C. Fleischer.	Franklin D. McNamara.
Louise M. Foster.	Michael F. Murphy.
Mabel L. Fuller.	Winfield L. Nourse.
Cora M. Hammell.	Mary F. Osborne.
Johnston Hepburn.	Charlotte Singleton.
Aubrey Austin Hills.	Ethel Lucretia Taintor.
Maude Isabelle Hills.	Eva Victoria Tukey.
Dora Hillson.	Ernest C. Wallace.
Nellie G. Hobbs.	Ernest L. White.
Ellen Boyd Kenny.	

LUTHER V. BELL SCHOOL.

District Committee.

Alvah B. Dearborn, M. D. Herbert A. Chapin.

Thomas M. Durell, M. D. George E. Whitaker.

Principal, Fred W. Shattuck. Assistant, Alice L. Davis.

GRADUATES.

T. Leman Atkinson.

Etta F. Blake.

Beulah F. Boynton.

Francis Breen.

Alvanora R. Brown.

Addie P. Carr.

George G. Clarke.

Edgar W. Doyle.

Louis C. Doyle.

Florence A. Eaton.

Mabel E. Elston.

Gerard Frazar.

Edward P. Garbati.

Leslie R. Grant.

Herbert M. Hale.

Frank S. Hamblin.

Irene Harlow.

Helena F. Kaula.

Ralph H. Keniston.

Thomas Lamb.

Susie L. Maddox.

C. Alice Manning.

Erville H. Maynard.

Harry C. Noyes.

Alma M. Pearson.

Laura E. Phipps.

Albert W. Priest.

Mabel B. Remick.

Frank D. Rinn.

Bertha E. Rowell.

Mary E. Shannon.

Wilder L. Sturtevant.

Thomas H. Trenholm.

OREN S. KNAPP SCHOOL.

District Committee.

Alvah B. Dearborn, M. D. Herbert A. Chapin.

Thomas M. Durell, M. D. George E. Whitaker.

Principal, John S. Emerson. Assistant, Abby C. Hunt.

GRADUATES.

Alice Bayfield.

Mary T. Bettincourt.

Elmer L. Brine.

Lillian Burns.

Frank Cannon.

Caleb Caswell.

Olie H. Chambers.

Joseph E. Cogan.

Harry E. Connor.

M. Emma Denver.

Abbie S. Farnum.

Anna C. Gebelein.

John N. Gebelein.

Annie S. Huestis.

Susie Hurd.

Richard Jennings.

William Jennings.

Frank M. Kanaly.

John J. Kenney.

Gertrude M. Kenny.

C. Henry Lynd.

C. Garfield McLean.

Laura M. Marceau.

Martin L. Melick.

Gertrude A. Mulliken.

Lillian E. Rice.

Reuben H. Rowe.

Jennie E. St. Coeur.

Hyjino M. Sears.

Flora I. Skinner.

Isabel Weymouth.

Robert S. Weymouth.

Richard S. Wiley.

Edith F. Williams.

K. Marion Wood.

FORSTER SCHOOL.

District Committee.

Frank H. Hardison. Quincy E. Dickerman.
Thomas S. Wentworth. Mayor Perry.

Principal, Fred C. Baldwin. Assistants, Mary E. Bunton,
Irena S. Nightingale.

GRADUATES.

Frank W. Abbott.	Emily S. Ives.
Perle L. Angell.	F. Edward Kaula.
J. Edgar Bean.	Alice M. Keeler.
Mary A. Brown.	Rebecca A. Kendall.
Harvey I. Boynton.	Bertha E. Keyes.
Andrew R. Burke.	Helen E. Krueger.
Willard D. Chandler.	Waldo H. Lailer.
Ethel H. Cobb.	John J. Leahy.
Eddie Coveney.	Lewis Lombard.
Maggie M. Donovan.	Ida J. Lynds.
Mary C. Downes.	Ethel I. Macdonald.
Lulu M. Dunton.	William H. McLaughlin.
Mabel G. Fox.	E. Marjorie Mayhew.
Harriet A. Frye.	Fred A. Moore.
Willie W. Grieves.	Cornelius A. Murphy.
John E. Haggerty.	Ellen C. Murphy.
Charles A. Hallett.	Henry P. Murray.
Florence F. Hanscom.	Grace F. Newcomb.
Mary S. Harmer.	Linda M. Newsom.
Blanche S. Harmon.	Mildred M. Nichols.
Chester L. Harts.	Hattie H. Nickerson.
John A. Henderson.	Annie L. Page.
A. Philip Hill.	Edward E. Parks.
Carrie J. Hobbs.	Blanche L. Piccott.
Helen A. Hodgkins.	Grace D. Plummer.
Louise M. Holmes.	M. Belle Preston.
Guy W. Hutchinson.	Florence G. Sanborn.
James W. Inwood.	Harry A. Scott.

Maude S. Shaw.	Cora A. Taylor.
Lena M. Shaw.	Elizabeth E. Terrio.
Maria Shaw.	Harry L. Tinkham.
Jennie M. Smith.	Ruth Tufts.
Ralph A. Smith.	Eugene R. Vinal.
Walter J. Smith.	L. Arthur Wallon.
Linwood E. Snowman.	Samuel L. Ware.
Frederick H. Stevens.	George M. Weaver.

MORSE SCHOOL.

District Committee.

Martin W. Carr. George A. Miles, M. D.
 Giles W. Bryant, M. D.

Principal, Mina J. Wendell. Assistant, Genevieve Allen.

GRADUATES.

William H. Bosworth, Jr.	Charles R. LeBosquet.
Charles F. Boyle.	William J. Logan.
Robert B. Campbell.	Mary D. MacKenzie.
Edith A. Child.	E. Maud Makant.
Lawrence V. Cotter.	Lizzie McTwiggan.
John J. Cummings.	Lena Monroe.
Thomas Davidson.	Harry S. Morehouse.
Elizabeth Densmore.	Maud H. Pratt.
Eugene T. Doherty.	Mildred T. Prescott.
Charles S. Eaton.	Lena M. Remington.
M. Alice Epps.	Electa M. Richardson.
Aunita N. Fales.	Edwin G. Ringdahl.
Herbert A. French.	Bertha M. Robinson.
Marion A. Frost.	Helen E. Smith.
Frank A. Funcke.	William M. Smith.
Evelyn T. Gale.	Mary E. Walsh.
Lillian M. Hopkins.	Rose E. Woodward.
Seth C. C. Howard.	Herman A. Zink.
Maude C. Kathan.	August C. Zoeller.

HIGHLAND SCHOOL.

District Committee.

George A. Miles, M. D. Giles W. Bryant, M. D.
Martin W. Carr.

Principal, George E. Nichols. Assistants, M. Alice Paul,
Ella J. Holmes.

GRADUATES.

Mary E. Anderton.	Berenice F. Goldthwaite.
Lester M. Bacon.	Bessie E. Griffin.
Vesta L. Bailey.	Fred C. Griffin.
Charles C. Ball.	Sophia B. Harding.
May E. Ball.	Blanche H. Hooper.
Beulah I. Barker.	Loubelle F. Howard.
Harrison W. Bowers.	Frederick C. Johnson.
Bertha A. Bray.	Lucy S. Kingman.
Compton D. Bray.	Annie L. Lamb.
Fred I. Cammon.	Elizabeth Lamb.
John R. Carey.	Claude F. Leavitt.
Carrie E. Carleton.	Clifford B. Lewis. .
Effie W. Carter.	Jessie P. Marshall.
Charles H. Caseau.	Arthur F. Mason.
Gusanda S. Countway.	Florence L. McAllister.
Walter S. Cummings.	Charles F. Merrill.
Amy E. Currier.	Robert H. Merritt.
Grace E. Cutter.	Ida M. Middlemas.
Lillian M. Dowd.	Florence E. Mills.
Louis S. Ellis.	Frederick E. Moore.
Helen I. Fales.	E. Florence Morton.
Annie A. Fielding.	Ruth L. Olney.
Alice L. T. Folan.	Flora M. Otis.
Harold E. Folger.	Hattie M. Page.
Evelyn C. Frazier.	Florence E. Patch.
Louis L. Glazier.	Laura E. Peavey.
Frederick C. Gohring.	Franklin F. Phillips.
Lee H. Gohring.	Georgie M. Proctor.

Beryl Pushee.	Harry A. Stacy.
Georgie E. Reed.	Clarence A. Stearns.
Edith F. Rice.	Lillian J. Stearns.
Inez M. Robbins.	James Tucker.
William N. Robbins.	Florence H. Walker.
Edward H. Roberts.	Thomas H. Wallace.
Eugene H. Shiere.	Herbert G. Woodman.

TABLE 31.—TEACHERS IN SERVICE DECEMBER, 1896.

NAME.		Residence.	Salary.	Beginning of Service.
<i>Latin High School.</i>				
George L. Baxter	Head Master	27 Warren Ave.	\$2,450	1867
Frank M. Hawes	Master	257 School St.	2,000	1879
Charles T. Murray	Sub-Master	28 Franklin.	1,650	1887
Sarah W. Fox	1st Assistant	99 Irving St., Cam.	1,200	1868
Frances W. Kaan	2nd Assistant	12 Pleasant Ave.	1,000	1882
Eudora Morey	3rd Assistant	Boston.	850	1882
M. Isabel Goldthwaite	" "	217 School St.	850	1893
Mrs. Lena Gilbert	" "	51 Elmwood St.	850	1893
Florence H. Paul	" "	120 Summer St.	850	1894
<i>English High School.</i>				
Charles T. C. Whitcomb	Head Master	12 Highland Ave.	2,450	1895
Winfred C. Akers	Master	24 Crocker St.	1,800	1896
Merle S. Getchell	Sub-Master	149 Sycamore St.	1,200	1895
Everett W. Tuttle	Sub-Master	Hotel Woodbridge.	1,450	1895
John A. Avery	Jun. Sub-Master	22 Dartmouth St.	1,200	1895
Harry L. Jones	" "	5 Madison St.	1,000	1896
Lyman C. Newell	" "	9 Harvard Place.	1,250	1895
Howard W. Poor	" "	34 Bow St.	1,000	1896
A. Marion Merrill	1st Assistant	60 Vinal Ave.	1,050	1895
M. Jessamine Dixon	1st Assistant	22 Bonner Ave.	1,100	1895
Maria B. Smith	2nd Assistant	496 Mass. Av., Arl'n	1,000	1894
Mary P. Anderson	3rd Assistant	137 Highland Ave.	850	1895
Esther Bailey	" "	56 Grove St., Wat'n	850	1895
A. Laura Batt	" "	54 Putnam St.	850	1895
Alice F. Davenport	" "	39 Cedar St.	850	1895
Mary P. Hitchcock	" "	10 Putnam St.	850	1895
Lucy Ingram	" "	10 Putnam St.	850	1894
Carrie A. Marsh	" "	156 Sycamore St.	850	1895
Eda L. Nichols	" "	54 Putnam St.	850	1895
Susie L. Sanborn	" "	13 Pleasant Ave.	800	1896
M. Helen Teele	" "	17 Central St. Arl'n	850	1895

TABLE 31.—TEACHERS IN SERVICE DECEMBER, 1896.

Grade.	NAME.	Residence.	Salary.	Beginning of Service.
PRESCOTT.				
9	<i>Samuel A. Johnson</i> , Master,	21 Flint st.	\$1,850	1893
9	Anna M. Bates,	102 Bridge st., Salem.	700	1874
8	Elizabeth M. Warren,	116 Pearl st.	600	1897
8	Emma M. Cate,	5 Fletcher st., Winchester.	600	1882
7	Abbie A. Anderson,	1 Pearl st.	600	1878
7	Amelia I. Sears,	20 Pinckney st.	600	1873
6	Grace L. Shaw,	50 Tufts st.	600	1892
5	Catherine T. Brown,	61 Myrtle st.	600	1868
4	Clara Taylor,	30 Florence st.	600	1871
3	Sarah E. Pratt,	10 Pearl st.	600	1877
2, 3	Elgina M. Plummer,	17 Cliff st., Melrose.	600	1877
2	Louise E. Pratt,	49 Myrtle st.	600	1889
1	Addie V. Hoyt,	Cliftondale.	600	1896
EDGERLY.				
9	<i>Charles E. Brainard</i> , Master,	91 Perkins st.	\$1,850	1889
9	Clara B. Cutler,	Main st., Bedford.	675	1892
8	Annie L. Dimpsey,	11 Forster st.	600	1891
7	Mary E. Richardson,	224 Broadway.	600	1893
6	Gertrude L. Gardner,	33 Gilman st.	600	1889
6	Mabel C. Mansfield,	224 Broadway.	600	1893
5	Mrs. M. R. Bickford.	Medford.	600	
4	Maria A. True,	116 Pearl st.	600	1895
4	Gertrude C. Mason,	75 Park st., Andover.	600	1893
3	Alice M. Dearing,	116 Pearl st.	600	1890
2	Lillian Nealley,	109 Glen st.	600	1882
1	Clara M. Bagley,	61 Florence st.	600	1873
1	Martha M. Power,	West Medford.	600	1891
DAVIS.				
4, 5	<i>Frances Meldrum</i> , Principal,	19 Aldrich st.	\$675	1896
3	Lucia E. Estey,	515 Massachusetts ave., Boston.	600	1895
2	Carrie T. Lincoln,	41 B Franklin st.	600	1893
1	P. A. Merritt,	96 Oxford st.	600	1885
BELL.				
9	<i>Frederick W. Shattuck</i> , Master,	79 Boston st.	\$1,850	1890
9	Alice L. Davis,	13 Pleasant ave.	675	1895
8	Emma L. Schuch,	25 Tufts st.	600	1874
7	Mary A. Bradford,	108 Central st.	600	1888
7	Nellie S. Dickey,	108 Central st.	600	1889
6	Mabel T. Totman,	11½ Sanborn ave.	600	1892
6	Maribelle Curtis,	22 Bonner ave.	600	1895
5	Mary S. Rinn,	17 Wesley park.	600	1889
5	Ada F. Fernald,	12 Miner st.	600	1893
4	Mabel L. Fall,	10 Putnam st.	650	1895
3	Edith J. Holden,	19 Linden st., Reading.	600	1893
2	Martha E. Daniels,	93 Concord ave.	600	1891
1	E. Lorette Schuch,	25 Tufts st.	600	1882

TABLE 31.—TEACHERS IN SERVICE DEC., 1896. *Continued.*

Grade.	NAME.	Residence.	Salary.	Beginning of Service.
CUMMINGS.				
4	<i>Lydia J. Page</i> , Principal,	21 Webster ave.	\$675	1869
3	Fannie L. Gwynn,	65 School st.	600	1886
2	Lena B. Blaikie,	56 Boston st.	600	1893
1	Margaret L. Martin,	16 Buckingham st.	600	1893
KNAPP.				
8, 9	<i>John S. Emerson</i> , Master,	95 Summer st.	\$1,850	1894
8, 9	Abby C. Hunt,	14 Aldersey st.	675	1873
7	Emma Frye,	17 Allston st., Allston.	600	1891
7	C. B. Parkhurst.	22 Highland ave.	600	1889
6	Clara B. Sackett,	52 Boston st.	600	1891
5	Ella F. Carpenter,	Columbus ave., Boston.		
4	Annie E. Robinson,	20 Webster ave.	600	1876
4	Nellie F. Sheridan,	84 Prospect st.	600	1888
3	Abbie A. Gurney,	11 Sanborn ave.	600	1888
2	L. Gertrude Allen,	230 Washington st.	600	1884
2	Minnie Alice Perry,	16 Pleasant ave.	600	1893
1	Mrs. Carrie L. Bliss,	308 Elm st.	600	1891
1	Ida B. Mason,	56 Boston st.	400	1895
1	Florence W. Gooding,	24 Pleasant ave.		
POPE.				
9	<i>George M. Wadsworth</i> , Master,	41 Boston st.	\$1,850	1891
9	Florence A. Chaney,	33 Hancock st., Boston.	675	1892
8	Harriet M. Clark,	1 Vernon st., West Medford.	600	1893
7	Alice I. Norcross,	79 Mt. Auburn st., Watertown.	600	1885
6	Blanche G. North,	5 High st.	500	1893
5	Lizzie W. Parkhurst,	22 Highland ave.	600	1885
5	Susan G. Meldrum,	19 Aldrich st.	600	1896
4	Annie G. Sheridan,	84 Prospect st.	600	1886
4	Mabel L. Bement,	87 Temple st.	600	1895
3	Clara M. Wheeler,	39 Greenville st.	600	1895
2	Lillian S. Albee,	42 Walnut st.	600	1888
1	Lydia E. Morrill,	34 Bow st.	600	1892
1	Jean Clinton Terry,	25 Aldrich st.	600	1895
PROSPECT HILL.				
7	<i>Helen Tincker</i> , Principal,	63 Columbus Ave.	\$700	1872
6	Frances A. Wilder,	36 Walnut st.	600	1874
4	Cora F. Taylor,	78 Bloomingdale st., Chelsea.	600	1896
K'g'n	Blanche Seabury,	Boston.	600	1892
BENNETT.				
3	<i>Mary B. Smith</i> , Principal,	7 Dell st.	\$675	1885
2	Annie E. Crimmings,	25 Church st.	600	1884
1	Miriam Cavanagh,	22 Linden st.	600	1893
1	Sarah I. Baird,	48 Prescott st.	400	1895

TABLE 31.—TEACHERS IN SERVICE DEC., 1896. *Continued.*

Grade.	NAME.	Residence.	Salary.	Beginning of Service.
JACKSON.				
3	<i>Annie E. McCarty</i> , Principal,	21 Church st.	\$675	1880
2	Isadore E. Taylor,	30 Florence st.	600	1883
1	Annie L. Savage,	65 Antrim st., Cambridge.	600	1873
K'g'n	Caroline G. Baker,	46 Washington st., Charlestown.	600	1895
FORSTER.				
9	<i>Fred. C. Baldwin</i> , Master,	16 Sycamore st.	\$1,850	1893
9	Mary E. Bunton,	109 Sycamore st.	675	1894
8	Irena S. Nightingale,	Arlington.	675	1895
7	Minnie A. Worden,	169 Sycamore st.	600	1895
7	Fannie E. Jennison,	109 Sycamore st.	600	1896
6	Elizabeth F. Clement,	29 Kidder ave.	600	1884
6	Sarah L. Copeland,	23 Ames st.	600	1896
5	Lucy K. Hatch,	72 Marshall st.	600	1892
4	Alice A. Bachelor,	35 Broadway.	600	1877
3	Maude L. Kent,	18 Maple ave.	600	1893
2	Annie S. Gage,	32 Marshall st.	600	1883
1, 2	Grace Shorey,	23 Foster st.	600	1892
1	Mary J. Richardson,	151 W. Canton st., Boston.	600	1895
GLINES.				
9	<i>Mary E. Northup</i> , Master.	181 Central st.	\$1,800	1878
9	Mary E. Stiles,	181 Central st.	675	1883
8	Mrs. Lena A. Hooper,	49 Heath st.	600	
7	Jane Parker,	22 Highland ave.	600	
6	Ellen A. Boynton,	55 Heath st.	600	1891
5	M. Frances Guptill,	113 Highland av.	600	1869
5, 4	Margaret A. Orr,	17 Mellen st., Cambridge.	600	1891
4	Mary A. Goddard,	9 Winter Hill Circle.	600	1893
3	Florence E. Baxter,	50 Albion st.	600	1891
2	Flora B. Rice,	9 Winter Hill Circle.	600	1895
3, 2	Laura M. Lamont,	90 Marshall st.	600	1895
1	Belle J. Tift,	7 Lee st.	600	1892
1	Fannie E. Hadley,	34 Rush st.	500	1896
K'g'n	Maizie E. Blaikie,	West Medford.	600	1889
BINGHAM.				
5	<i>Harry F. Hathaway</i> , Master,	31 Vinal ave.	\$1,000	1890
4	Elizabeth J. O'Neil,	505 Broadway.	600	1894
3	Harriet F. Ward,	505 Broadway.	600	1894
4, 3	Mabel E. Perry,	15 Sycamore st.	600	1896
2	Mary E. Jordan,	Malden.	600	1895
2	Emma F. Bradley,	7 Buckingham st.	600	1896
1	Rose O. Loughlin,	Stoneham.	600	1896
1	Mabel E. Mansir.	77 Albion st.	500	1891
BEECH STREET.				
2, 1	<i>Elizabeth S. Foster</i> , Principal.	54 Belmont st.	\$675	1895
Assts	Mada S. Wendell,	211 Summer st.	200	1896
	Ardelle Abbott,	71 Craigie st.	200	1896
	Alice Beckwith,	13 Brastow ave.	200	1895

TABLE 31.—TEACHERS IN SERVICE DEC., 1896.—*Continued.*

Grade.	NAME.	Residence.	Salary.	Beginning of Service.
CEDAR STREET.				
4, 3	<i>Lizzie A. Davies</i> , Principal.	29 Worcester sq., Boston.	\$625	1893
2, 1	Mary E. Lacy,	63 Cherry st.	600	1890
MORSE.				
9	<i>Mina J. Wendell</i> , Master.	211A Summer st.	\$1,850	1882
9	Ella J. Holmes,	94 Davenport st., No. Cambridge.	675	1895
8	Emily J. Gifford,	10 Brastow ave.	600	1895
7	P. S. Downes,	30 Wallace st.	600	1872
7	Addie E. Wentworth,	211 Summer st.	600	1893
6	Lennie W. Bartlett,	211 Summer st.	600	1893
6	Anna E. Sawyer,	26 Bow st.	600	1872
5	Mary A. Haley,	117 Summer st.	600	1867
4	Lizzie E. Hill,	211A Summer st.	600	1891
3	Helen M. Mead,	211A Summer st.	600	1893
2	Ella P. McLeod,	19 Wesley Park.	600	1888
1	Alice M. Emerson,	6 Evergreen ave.	600	1891
1	Effie Stanley,	Everett.	600	1896
FRANKLIN.				
5	<i>Harriet A. Hills</i> , Principal,	41 Belmont st.	\$675	1874
4	Jennie A. Chapman,	45 Cedar st.	600	1894
4	Anna C. Damon,	Waverly.	600	1879
3	Caroline S. Plimpton,	46 Laurel st.	600	1859
DURELL.				
3	<i>Nora F. Byard</i> , Principal,	248 Summer st.	\$675	1884
2	Grace A. Bosworth,	16A Church st.	600	1894
2	Edith L. Hunnewell,	9 Mason ave.	500	1894
1	Mary Winslow,	38 Spring st.	600	1893
HARVARD.				
1	Grace B. Tibbetts.	4 Tenney st., No. Cambridge.	\$600	1890
BURNS.				
4	<i>Laura J. Brooks</i> , Principal.	31 Stevens st., Stoneham.	\$675	1883
3	Minnie S. Turner,	19 Harvard st.	600	1885
2	A. L. Brown,	281 Summer st.	600	1885
1	Florence M. Hamlin,	90 Orchard st.	600	1889

TABLE 31.—TEACHERS IN SERVICE DEC., 1896.— *Concluded.*

Grade.	NAME.	Residence.	Salary.	Beginning of Service.
HIGHLAND.				
9	<i>George E. Nichols</i> , Master,	26 Loring st.	\$1,850	1877
9	M. Alice Paul,	23 Chester st.	675	1879
8	Mabel A. Jepson,	53 Chester st.	600	1892
7	S. Adelaide Blood,	53 Morrison st.	600	1882
7	Cora B. Wheeler,	53 Chester st.	600	1896
6	Grace M. Clark,	1 Vernon st., West Medford.	600	1893
6	Sarah C. Linscott,	25 Folsom st., Roxbury.	600	1896
5	Jennie C. Frazier,	119 Thorndike st., Cambridge.	600	1887
4	Sarah E. Pray,	28 Quincy st.	600	1878
3	Alice T. McNamara,	308R Elm st	600	1895
2	Jennie M. Horner,	37 Morrison st.	600	1888
2	Mary H. Joyce,	76 Boston st.	600	1891
1	Katherine E. Hourahan,	11 Irving st.	600	1892
HODGKINS.				
9	<i>Arthur L. Doe</i> , Master,	79 Chandler st.	\$1,850	1896
9	Alice M. Winslow,	8 Day st., North Cambridge.	675	1896
8	Edith W. Emerson,	8 Day st., North Cambridge.	600	1896
7	Alice S. Hall,	Malden.	600	1896
6	Mrs. Gertrude W. Leighton,	95 North st.	600	1896
5	N. Agnes Richardson,	45 Webster st.	600	1896
5	Flora A. Burgess,	Waltham.	600	1894
4	Mary S. Lawrence,	54 Paulina st.	600	1894
3	Katherine M. Fox,	Stoneham.	600	1896
2	Bertha M. Jones,	7 Clarendon ave.	600	1894
1	Mrs. Marion I. Noyes,	282 Broadway, Everett.	600	1896
1	Lila G. Gray,	71 Wallace st.	300	1895
K'g'n	Gertrude Friend,	53 Chester st.	600	1893
LINCOLN.				
2	<i>J. Louise Smith</i> , Principal,	92 Johnson st., Lynn.	\$650	1896
3	Charlotte F. Mott,	107 Mt. Vernon st., Boston.	600	1886
1	Eliza H. Lunt,	50 Curtis st.	600	1890
SPECIAL TEACHERS.				
MUSIC.				
9-7	S. Henry Hadley, 4 days,	35 Everett ave.	\$1,500	1869
6-1	Mrs. Gish Garwood, 3 days,	19 Follen st., Boston.	900	1891
DRAWING.				
9-1	Mary L. Patrick,	Newtonville.	900	1895
SEWING.				
8-5	Mary L. Boyd,	97 Sycamore st.	600	1888
8-5	Sarah I. Stanton,	211 Summer st.	600	1895
PENMANSHIP.				
9-1	Wm. A. Whitehouse,	94 Summer st.	1,200	1895

THIRD ASSISTANTS IN SERVICE DECEMBER, 1896.

NAME.	School.	Residence.	Salary.	Beginning of Service.
Ardelle Abbott,	Beech Street,	71 Craigie st.	\$200	1896
Alice Beckwith,	Beech Street,	13 Brastow avenue,	200	1895
Gertrude F. Brown,	Morse,	370B Medford st.	275	1896
Etta M. Cushing,	Hodgkins,	3 Thurston st.	275	1896
Mabel G. Delano,	Davis,	108 Cross st.	275	1896
Matie I. Dayfoot,	Jackson,	2336 Mass. ave., Cambridge	275	1895
Ada B. Gilmore,	Glines,	43 Robinson st.	275	1896
Susie L. Luce,	Morse,	91 Pearl st.	425	1896
Minerva R. Mills,	Prescott,	170 Pearl st.	350	1893
Alice E. Morang,	Burns,	10 Fairlee st.	350	1893
Grace M. Perkins,	Prospect Hill,	51 Kirkland st., Cambridge.	200	1896
Mada S. Wendell,	Beech Street,	211 Summer st.	200	1896
Clara G. Hegan,	Cummings,	100 School st.		1896
E. Maud Smith.	Beech Street,	17 Harvard st.		1894

SCHOOL DEPARTMENT.

	1872	1873	1874	1875	1876	1877	1878	1879	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	Total.
Joseph W. Bailey,.....									1																	1
Quincy E. Dickerman, ...									1																	17
Norman W. Bingham, ...									1																	14
John A. Cummings,.....									1																	4
Mark F. Burns,.....									1																	5
Dr. Horace C. White,.....									1																	12
Rev. Albert E. Winship,...									1																	3
Harriet M. Pitman,.....									1																	2
Mrs. Cornelia B. Skinner,									1																	3
Martin W. Carr,									1																	13
Dr. Horace P. Makechnie,									1																	6
Josiah B. Maynew,.....																										1
Frank E. Fitts,.....																										1
Charles L. Shepard,.....																										6
William P. Hill,.....																										1
Herbert C. Hall,.....																										1
Walter C. Mentzer,.....																										1
S. Newton Cutler,.....																										11
Charles L. North,.....																										1
James F. Beard,.....																										6
George O. Proctor,.....																										1
Dr. H. P. Hemenway,.....																										1
Albert W. Edmunds,.....																										3
Mrs. Addie B. Upham,...																										3
Charles B. Osgood,.....																										1
Dr. Giles W. Bryant,.....																										7
Frank E. Dickerman,...																										1
Dr. T. M. Durell,.....																										6
Helen J. Sanborn,.....																										3
Dr. A. B. Dearborn,.....																										5
Isaiah H. Wiley,.....																										1
Frank W. Kaan,.....																										1
George S. Poole,.....																										4
Herbert A. Chapin,.....																										4
Thomas S. Wentworth,...																										3
L. Herbert Huntley,.....																										2
Frank H. Hardison,.....																										2
Dr. George A. Miles,.....																										2
George E. Whitaker,.....																										1
SUPERINTENDENTS.																										
Joshua H. Davis,.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	\$1									17
Clarence E. Meloney,...																	11	1	1	1	1					5
Gordon A. Southworth,...																							1			4

*Elected April 20, 1872.
†From April, 1890.

‡Died April, 1890.
§Till May 1, 1888.

||From May 1, 1888.
¶From Sept. 1, 1893.

REPORT

OF THE

TRUSTEES OF THE PUBLIC LIBRARY

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, January 13, 1897.

Referred to the Committee on Printing, to be printed in the Annual Reports. Sent down for concurrence.

GEORGE I. VINCENT, *Clerk*.

IN COMMON COUNCIL, January 13, 1897.

Referred to the Committee on Printing, to be printed in the Annual Reports, in concurrence.

CHARLES S. ROBERTSON, *Clerk*.

BOARD OF TRUSTEES AND OFFICERS
OF THE SOMERVILLE PUBLIC LIBRARY, YEAR ENDING
DECEMBER 31, 1896.

TRUSTEES.

CHARLES S. LINCOLN.	ELIJAH C. CLARK.
J. HENRY FLITNER.	JOHN B. VIAL.
CHRISTOPHER E. RYMES.	CHARLES A. WEST.
CHARLES H. BROWN.	J. FRANK WELLINGTON.
CHARLES W. SAWYER.	

OFFICERS.

CHARLES S. LINCOLN	. . . . .	<i>President.</i>
JOHN S. HAYES	. . . . .	<i>Secretary.</i>

COMMITTEES.

BUILDING AND GROUNDS.— Rymes, Vial, Brown and Wellington.

ADMINISTRATION.— Clark, Sawyer and Wellington.

BOOKS AND CATALOGUES.— Lincoln, *ex officio*, Rymes, Vial, Brown and West.

FINANCE.— Flitner, Clark and Sawyer.

LIBRARIAN.

JOHN S. HAYES.

ASSISTANT LIBRARIAN.

CLARA L. BIDWELL.

ASSISTANTS.

ANNA L. STONE.

MARY J. WARREN.

CATALOGUER.

F. MABEL NORCROSS.

RECEIPTS AND EXPENDITURES FOR 1896.

CREDIT.					
Balance from 1895	.	.	.	.	\$120.34
Appropriation	.	.	.	.	8,000.00
Dog Licenses	.	.	.	.	2,506.29
Fines	.	.	.	.	318.73
Catalogues	.	.	.	.	71.60
					<hr/>
					\$11,016.96

DEBIT.					
Books and periodicals	.	.			\$3,216.80
Binding	.	.	.	.	773.32
Catalogue cards	.	.	.	.	31.40
Printing	.	.	.	.	87.55
Stationery	.	.	.	.	46.35
Salaries: Administrative					
dept.	.	.	.	.	\$3,329.66
Cataloguing dept.	.	.	.	.	567.28
					<hr/>
					3,896.94
Branch office	.	.	.	.	33.33
Furniture	.	.	.	.	110.65
Repairs	.	.	.	.	142.25
Express	.	.	.	.	147.75
Electric lighting	.	.	.	.	244.72
Gas	.	.	.	.	48.34
Water	.	.	.	.	26.00
Fuel	.	.	.	.	341.58
Insurance	.	.	.	.	27.00
Disbursements	.	.	.	.	63.10
Postage	.	.	.	.	36.00
Printing Finding List, 1895	.	.	.	.	1,623.92
Book pockets	.	.	.	.	10.65
Binders for periodicals	.	.	.	.	35.22
Boxes for agencies	.	.	.	.	37.86
Typewriter	.	.	.	.	26.00
Balance to 1897	.	.	.	.	10.21
					<hr/>
					\$11,016.96

CITY OF SOMERVILLE.

To the Board of Aldermen and Common Council of the City of Somerville:—

Gentlemen,—It is quite unnecessary for the Board of Trustees of the Public Library to make any elaborate report concerning the condition and work of the Public Library. We are gratified to be able to endorse fully the carefully prepared report of our Librarian and Secretary, and to regard it, although addressed to us, as substantially our report to you.

During the past year the people of Somerville have manifested a commendable interest in our library by a very much enlarged use of its volumes, both in private houses, and in the public schools. The increased circulation, which might be regarded as phenomenal were it not that by comparison with previous years it indicates a steady growth in a practical and intelligent apprehension of the resources at our command, involves enlarged expenses. Books on the shelves have little injury, but books in the hand, and in many hands, are subject to more or less wear. Increased circulation calls for new books, for a constantly increasing amount of money for repairing and re-binding books, and for additional library force, that the public needs may be met without unnecessary delay.

Aside from these demands that must be met, there is immediate and pressing need for a Card Catalogue for the public use, to which the librarian makes special and emphatic reference in his report. We recommend what he says. We are satisfied that the resources of the library cannot be exhibited and utilized without the special catalogue called for, and which we had hoped

to have supplied before this time, but the fund at our disposal would not permit us to order it.

We, therefore, ask your honorable body to grant, for the special needs above mentioned, and for the ordinary running expenses of the library, the same appropriation granted last year, as the smallest sum, with which we can manage the affairs of the department committed to our care, namely, eight thousand dollars and the dog tax.

In conclusion, the Trustees, while acknowledging their personal responsibility to their fellow citizens for the management of the trust submitted to their charge, place great dependence upon the principal librarian and secretary, and it is proper to say that he has ever performed his duties with intelligence, fidelity, and zeal. The trustees are also glad to be able to add that his assistants have heartily co-operated with him in his work. It may be said, without any reservation, that the affairs of our Public Library are admirably conducted, with increasing appreciation on the part of our entire community.

Respectfully submitted,

CHARLES S. LINCOLN,

President.

December 31, 1896.

REPORT OF THE LIBRARIAN.

To the Trustees of Somerville Public Library:—

Gentlemen,—In conformity with your rules, I have the honor to submit my report on the condition and management of the library for the official year ending December 31, 1896, this being my own fourth annual report, and the twenty-fourth annual report of the Library.

It is with pleasure that I am able to state that the library is in good condition, materially increased in size, and apparently more fully appreciated and intelligently used by our fellow citizens than ever before.

It is also gratifying to state that the past year emphasizes the fact that the changes and improvements made under your direction, within the past few years, have proved to be conspicuously useful and wise. The thoughtful consideration of the affairs of the library with a steady practical end in view has been recognized by the public at large, not in words simply, but in availing itself of the facilities which you have provided. The best praise is often that which is unspoken. Ruskin in one of his letters writes: "There is no dodge in Titian. It is simply right doing with a care and dexterity alike unpractised among us nowadays." With but little change, this note of approval may be repeated concerning all who have had to do with the work of this library. "Care and dexterity" have been practised and to-day all enjoy the fruition of the labors which honored the past.

CIRCULATION.

During the past year there have been no interruptions in the legitimate work of the library, and it has been open to the public every day, except Sundays and holidays, 306 days in all.

The number of volumes taken out for home use has been 148,193, of these 11,162 were distributed through the West Somerville agency, 3,482 through the agency at East Somerville, and 8,939 to the several large Grammar school buildings.

The agency at West Somerville was re-opened March 2, and at East Somerville April 14, where the books have been collected and distributed each Monday, Tuesday, Thursday and Friday. Boxes have been sent to the schools once each week during term time.

The circulation of books for the year is unprecedented in the history of this library, being forty per cent. larger than any preceding year, while the gain in the last half of the year 1896 is fifty-eight per cent. greater than the last six months of any other year.

I am inclined to think that this large increase is the result of natural causes. While we should not expect or desire this rate of increase to continue, we should strive to place the rich resources of our shelves in the family of every citizen of this city.

It is very evident that the patrons of this library fully appreciate what you have already done to make the books easily accessible. The classification of the books in the library, the new Finding List, the Monthly Bulletin, and the two-book card have made it possible to distribute over 148,000 volumes, where less than 100,000 volumes were given out before.

The smallest number of books distributed in any one day was February 6, when 164 were delivered, and two days later, February 8, the largest daily charge was made, 1,135. The average daily circulation for the year was 484 volumes.

During the month of August 9,034 books were issued, which was the lightest month of the year, and December was the largest in the history of the library, having a circulation of 16,194 books.

YEARLY CIRCULATION.

While it is true that the benefits derived from the use of the library cannot be reckoned in coin, expressed in tables, or described by the pen, it may be interesting, however, to see to what

NEW BOOKS.

We have added to the library during the year 5,016 volumes, and 175 volumes have been discarded or lost, making a net increase of 4,841 volumes. The number of volumes in the library, at the present time, exclusive of public documents, duplicates and pamphlets in the duplicate room, is 33,826 volumes. Of these volumes, 193 were gifts to the library, 267 were received in exchange for duplicates, 242 by binding serials, 572 by binding pamphlets and paper-covered books, and 3,742 by purchase.

While it has been our careful plan to add desirable books to each department of the library, and while it is true that many costly and valuable volumes have been purchased during the year, we have bought largely duplicates of those books already in the library that were constantly in circulation, considering it better to add books that we know would be called for, rather than those we were not sure would be used. Five copies of one book constantly in circulation are much to be preferred, under ordinary circumstances, to five volumes of different books that are rarely called for. So long as the reading public will keep five copies of *Uncle Tom's Cabin* in circulation it is good policy to have at least six copies in the library. Other works of specific value, but of restricted use, need no duplicates.

As to the ordinary publications of the day, notably novels, great care has been exercised to restrict purchase, unless the books offered are by authors of marked repute. It should not be expected that the library shall purchase every book as soon as published. The funds at our disposal would not permit any such course, and it is desirable, moreover, not to load our shelves with volumes for which there may be only a transient demand. If, after the novelty of its publication has worn away, a work holds its place, as of more than passing worth, in the estimation of the public, the demand should regulate the supply.

Another matter, worthy of note in this connection, is that the purchase of books should be for the general public, for those who do not confine their reading altogether to fiction. It is a matter of congratulation that many books, aside from novels,

are increasingly called for, such as travels, biographies, essays, poetry and history.

REBINDING.

The record for the year shows a continued increase in the number of books sent to the binder to be re-covered, and also the number worn out and discarded is greater than previous years.

While there is a vast difference in the way borrowers of books treat public property, many using them with the utmost care, while others seem to have no feeling of responsibility, it rarely happens that sufficient damage appears to be done by any one person to render him liable for the expense of rebinding. The binding bill is no small item in our annual expenses, and it is evident as the age of your books increases, and your circulation multiplies, a larger appropriation will be needed for this purpose.

During the past year 2,225 volumes have been sent to the bindery. Of this number 242 were magazines and periodicals, 472 paper-covered books and pamphlets, and 1,411 volumes were from the circulating department.

DONATIONS.

The library has received as gifts during the year 169 volumes, 219 pamphlets and 987 periodicals; also a fine copy of Draper's Map of Somerville, 1852.

This map was presented by the late Capt. Thomas Cunningham.

LIST OF DONATIONS.

	Vols.	Pamph.	Period.
Adams, Mrs. L. K.	1	..	12
American Humane Society of Vivisection . . .	..	1	..
Amherst College . . . . .	..	1	..
Atkinson, Edward	1	..	..
Benton, J. H., Jr.	1	..	..
Bigelow, C. H.	1	..	..
Blinn, H. C. . . . .	..	1	..
Bolton, C. K.	1	..	..
Boston, City of	3	..	..
Boston Globe	1	..	..
Boston Public Library . . . . .	..	1	10
Brigham, W. E. . . . .	..	..	10
Brockton Public Library . . . . .	..	1	..
Brookline Public Library	1	2	12
Cambridge, City of	1	..	..
Cambridge Public Library . . . . .	..	1	10
Carnegie Public Library . . . . .	..	1	..
Central Club	1	..	..
Chicago Civil Service Reform Commission . .	..	1	..
Chicago Public Library . . . . .	..	1	..
Christian Register . . . . .	..	..	52
Cincinnati Public Library . . . . .	..	1	..
Cleveland Public Library . . . . .	..	3	..
Clinton Public Library . . . . .	..	2	..
Concord Public Library . . . . .	..	1	..
Cooke, J. P. . . . .	..	..	..
Cunningham, Thomas, 1 map . . . . .	..	1	..
Cunningham, Mrs. Thomas . . . . .	..	25	..
Cushman, W. H. . . . .	..	..	2
Cutter, F. R. . . . .	..	..	15
Danvers Peabody Institute . . . . .	..	..	1
Davis, T. A.	1	..	..
DeCosta, Rev. B. F.	1	..	..
Detroit Public Library . . . . .	..	1	..
Dover Public Library . . . . .	..	1	2
Elliot, C. D.	1	..	..
Elliot, Mary E.	1	..	..
Emerson, J. S. . . . .	..	..	3
Enoch Pratt Free Library . . . . .	..	1	..
Fall River Public Library . . . . .	..	1	..
Fitchburg Public Library . . . . .	..	3	..
Forbes Library, Northampton . . . . .	..	1	..
Gildehaus, Charles, St. Louis . . . . .	..	..	..
Grand Commandery K. T. of Massachusetts .	1	..	..
Gypsy Moth Commission	1	..	..
Hachenberg, G. P.	1	..	..
Hartford Public Library	1	..	10

LIST OF DONATIONS — *Continued.*

	Vols.	Pamph.	Period.
Harvard College	2	..	..
Hayes, J. S.	12	..	..
Hayes, Lydia Y.	1	..	..
Hill, W. P. . . . .	..	1	..
Home Market Club . . . . .	..	..	12
Howard Memorial Library, New Orleans	4	15	..
Indian Rights Association . . . . .	..	5	..
Jersey City Public Library . . . . .	..	1	3
Jones, Miss E. K. . . . .	..	1	..
Jones, L. H. . . . .	..	1	..
Journal Publishing Co.	1	..	104
Kimball, F. M.	6	..	..
Kingsley Woman's Relief Corps	1	..	..
Ladies' Commission S. S. books . . . . .	..	2	..
Lancaster Public Library . . . . .	..	1	..
Lawrence, Gen. S. C.	1	..	..
Lawrence Public Library . . . . .	..	1	5
Lee & Shepard	5	..	12
Leffingwell, A. . . . .	..	1	..
Leominster Public Library . . . . .	..	1	..
Lexington Historical Society	1	..	..
Littleton Public Library . . . . .	..	1	..
Lynn Public Library . . . . .	..	1	12
McNamie, J. H. H.	1	..	..
Malden Public Library . . . . .	..	1	..
Manchester, N. H., Public Library . . . . .	..	1	..
Massachusetts, State of	25	..	2
Massachusetts Charitable Mechanics' Association	1	..	..
Massachusetts Institute of Technology	1	..	..
Maynard, W. A.	2	..	51
Medford Public Library . . . . .	..	1	3
Melrose Public Library . . . . .	..	1	..
Merrill, Mrs. I. P. . . . .	..	2	..
Milwaukee Public Library . . . . .	..	1	..
Minneapolis, City of	1	..	..
Morrison, M. L.	1	..	..
Murray, William	1	..	..
National Civil Service Reform League . . . . .	..	1	..
New Bedford Public Library	1	..	12
New Haven Public Library	1	..	..
New London Public Library . . . . .	..	..	12
New York State Library	2	..	..
Newark Public Library	1	2	10
Newport, R. I., Redwood Library . . . . .	..	1	..
Newton Public Library . . . . .	..	1	..
North Adams Public Library . . . . .	..	1	..
Norwich, Conn., Otis Library . . . . .	..	1	6
Our Outlook . . . . .	..	..	36
Parker, F. W. . . . .	..	1	..
Patterson Public Library . . . . .	..	1	1

LIST OF DONATIONS — *Concluded.*

	Vols.	Pamph.	Period.
Peabody Institute . . . . .	..	1	..
People, New York . . . . .	..	..	52
Perkins Institute of the Blind	1	..	..
Portland, Oregon, Public Library . . . . .	..	..	6
Poughkeepsie Public Library . . . . .	..	1	..
Providence Athenaeum . . . . .	..	1	8
Providence Public Library . . . . .	..	1	12
Quincy Public Library . . . . .	..	1	..
Radiator, High School . . . . .	..	..	5
Raymond & Whitcomb . . . . .	..	15	..
Rich, S. M. . . . .	..	..	2
Ricker & Sons	1	..	..
Rochester, N. Y., Reynolds Library . . . . .	..	2	..
St. Louis Public Library . . . . .	..	2	..
Salem Public Library	1	1	12
San Francisco Public Library . . . . .	..	1	8
Sanford, P. B.	1	9	..
Sawyer, C. W.	1	..	..
Scranton Public Library, Pennsylvania . . . . .	..	1	2
Scull and Field . . . . .	..	2	..
Seattle Public Library . . . . .	..	1	..
Smith, Rev. C. M.	1	..	..
Somerville, City of	1	..	..
Southworth, G. A.	1	1	..
Springfield Public Library . . . . .	..	1	12
Stone, F. W. . . . .	..	..	13
Syracuse Public Library . . . . .	..	1	..
Taunton Public Library . . . . .	..	1	..
Thompson, B. F.	1	..	..
Thurston, E. L.	1	..	..
Tilton, F. L.	1	..	..
Titus, Anson . . . . .	..	1	..
Traveller's Insurance Co. . . . .	..	..	12
Tufts College	3	..	25
Tyner, Paul . . . . .	..	1	..
United Societies, Manifesto . . . . .	..	..	12
United States Government	41	66	154
University of Pennsylvania	1	..	..
Upham, Warren, Minn. . . . .	..	3	..
Valentine, H. E.	1	..	..
Viall, J. B. . . . .	..	..	158
Vincent, G. I. . . . .	..	1	..
Waltham Public Library . . . . .	..	1	7
Washington Lodge, A. F. and A. M.	1	..	..
Wellington, J. F.	3	..	..
West, C. A.	3	..	..
West and Jenny . . . . .	..	..	12
Wheeler, J. . . . .	..	1	..
Williams, J. P. . . . .	..	..	296
Willis, C. W.	1	..	..
Woburn Public Library . . . . .	..	2	..
	169	219	987

CARD CATALOGUE.

It may not be necessary for me to again call your attention to the urgent need for a Card Catalogue for the use of those who frequent the library. In previous reports I have explained its importance, and what I have already said I need not repeat, because I think we all agree that it is impossible to make any ready and easy use of books without one. Old fashioned ways have given place to new and improved methods. I have no desire to have any change made in any direction because of its novelty, but this change which has come about with large advantage in other libraries seems to me imperatively demanded for us. Either the public must be contented to be incommoded, or the force of assistants greatly increased, or this Catalogue immediately provided.

I am confident you recognize the correctness of all I have ever said on this subject, and that the only question that arises is as to ways and means. It is my firm conviction that the preparation of a Card Catalogue should be begun forthwith if we are watchful, as it is expected we should be, for the best interests of the library in its service of the people.

Of course this will occasion considerable outlay, and I trust and confidently expect that the city government, loyal to the moral and intellectual character of the city, will make the appropriation for the coming year large enough to enable us to begin the work at once, with a sufficiently large force to complete it during the year.

LIBRARY BULLETIN.

We have published the Bulletin each month during the year, excepting July and August, and also an extra Fiction Number of twelve pages. It has proved a wise and judicious investment of time and money. I am confident that it has increased the circulation of books, and materially improved the character of the reading.

We have not only published the lists of new books bought, but we have given special Reading Lists on subjects in which

students and readers are, or should be, particularly interested. These lists have perceptibly added to the usefulness of the library by calling attention to many books, which would otherwise remain idle or but little used, and many persons have thereby been introduced to some of the more helpful and interesting works in the library.

The special Fiction Number contains the names of all the works of fiction, arranged under authors, added to the library up to the present time, since the Finding List was printed. It will prove a great convenience to the reader of fiction.

The Bulletin has also contained three annotated special Fiction Lists of new books.

The following is the list of topics upon which special reading lists have been published during the year:

Armenian Question.	Memorial Day.
Arbor Day.	Monroe Doctrine.
Best Books of 1895.	Municipal Government.
Botany.	New England.
Burgoyne's Campaign.	Nicaragua and Venezuela.
Christmas.	Our Country.
Coffin, Charles C.	Patriots' Day.
Financial Situation.	Periodicals in the Library.
Hawaii and the Sandwich Islands.	Special Fiction Lists.
Hallowe'en.	Summer Reading.
Joan of Arc.	Summer Sports.
Kindergarten.	Thanksgiving Day.
Lincoln, Abraham.	Valentine's Day.
List of Boys' Books.	Washington, George.

REFERENCE ROOM.

There has been a marked increase, from month to month, in the number of those using the reference room. It is evident that it was a wise thing to have it open, during fixed hours and under the charge of a competent attendant who could assist those who resorted to it.

Special effort should be made to make known the possibilities of this part of our library. It should be the common resort of those who desire to pursue special studies or to confirm facts which they have gathered. As its advantages become more widely known it will doubtless be necessary to open it to readers and students for the same length of time that the circulating library is open, with the possible exception of Wednesday and Saturday evenings. It is evident to my mind that there must be many in a community as intelligent as ours who would gladly avail themselves of the opportunity to use on the spot, in the library itself, books to which their attention has been especially called. The habit of consulting books is the foundation of a broad education. The important value of it will be conceded by every intelligent reader. This is not to say that a reading community is necessarily a wise community, but to deliberately emphasize the converse statement, that a wise community will be a reading community, if the doors of such a library as ours are thrown wide open for special and careful consultation of standard works of reference.

LIBRARY NOTICES.

In several sections of the city a neatly framed and attractive notice, bearing a good picture of this library building, headed: "The Public Library is the People's University," has been set in a conspicuous place, calling attention to the library, and giving the hours it is open to the public. A Finding List in many instances is kept near the notice and is open for consultation at any time.

It is desirable, since all the people contribute to the support of the library, that no section should feel itself debarred from its benefits. Every legitimate method should be pursued to bring the Public Library near to every individual composing the public. No individual should feel neglected or handicapped in the use of an institution which can give so much information and entertainment.

So important has this seemed that I have at times considered if it would not be well to have a simple and inexpensive circular,

embodying the library notices, sent to every home, or so delivered as not to incur unusual expense. Our monthly bulletins, however, are doing a good work in this direction.

SCHOOL DELIVERIES.

In response to the petition presented to your board, by the teachers of our public schools, books have been delivered and collected at the several large Grammar schools once each week during a part of the year. The accompanying figures will show to what extent the schools have availed themselves of the accommodation.

When it is considered that all pupils, above the seventh grade in our schools, are entitled to library cards, and that each teacher can take out six books at one time, for school use, the number of books sent to the schools may appear to you to be too small, and would hardly warrant the extra time and expense attending the experiment.

I am clearly of the opinion, however, that the library and the schools should work together to bring our youth in touch with the best books. It was not the design of this movement to get the pupils to read books, regardless of their character, but to bring the reading of the children to a certain extent under the eye of the teacher, that he might by suggestion direct the pupil in a wise and judicious choice of books, and thus make the library supplement the instruction of the school.

There can be no question in a thoughtful mind that the habit of reading good books, and the cultivation of a love for our best literature, are, next to the development of a worthy character, the greatest good a school can do for its pupils, and they are worth infinitely more to the child than a complete knowledge of partial payments or the binomial theorem. When parents and teachers realize that a love for good books is of more worth than scoring high per cents., and a desire for knowledge is preferable to perfect attendance, then the usefulness of the public library as an educational factor will be felt.

A bright teacher has aptly said: "If the teacher is to carry on her work to the best advantage, she needs the librarian and the library, and the librarian needs the teacher and the school. There must be a spirit of sympathy and co-operation between teacher and librarian. The teacher must be the inspirer, the finder of interest, the guide to the individual; the librarian must stand ready to meet the demands inspired by the teacher and must do all he can to keep enthusiasm alive, and working together they may, through the children, reach out into the homes. First of all, the teacher must be a reader, and especially of children's books. How can she quicken interest in the children, if she does not possess that interest herself? How can she help her children to get the best there is in a book, if she herself does not know what is in it?"

"It is not enough that the children read the books, they must be taught how to use them and learn to read them, Poetry for its music, beauty, inspiration and passion; Fiction for its lessons in life and character; Essays and books read in relation to school work, for information and thought. The teacher must arouse the children's sympathies, help them to admire and love the noblest, encourage them to do and to be, not by preaching and examining, but by heart to heart talks over things which have appealed to their best interests and aroused their most generous aspiration. Often failure in this work is due to the fact that the teacher does not know how to read. She is enthusiastic, sees the value of the library, but is discouraged and helpless when it comes to the How. The children lose interest, the reading is made a task, and the books are not read. The teacher is fitted for the work neither by practice nor training."

The number of books circulated, therefore, cannot indicate the wisdom of the movement. The voluntary testimony of many teachers convinces me that in many schools of the city the Public Library has been of great assistance in the correct education of our youth, and many are forming habits of the proper use of books, and cultivating a love for our best literature.

I trust you will continue the delivery of books at the schools, in some form, feeling confident that in time you will see a marked improvement in the character of the books our children use.

DELIVERY AT THE SCHOOLS.

			Deliveries.	Books.	Average.
1.	Edgerly	.	28	1,659	59
2.	Knapp	.	28	1,464	52
3.	Forster	.	28	1,302	46.5
4.	Hodgkins	.	11	385	35
5.	Glines	.	2	69	34.5
6.	Morse	.	28	951	34
7.	Prescott	.	28	916	32.7
8.	Highland	.	28	834	29.7
9.	Pope	.	28	795	28
10.	Bell	.	24	564	23.5
				<hr/> 8,939	<hr/> 38.3

ADDITIONAL AGENCIES.

The public, accommodated by the two agencies you have established, fully appreciate the efforts you have made in their behalf, and I am clear in my own mind that it is a wise expenditure of time and money.

It must have occurred to each of you that there are many localities in this city that are largely deprived of the benefits of the library, and which need and are entitled to the same privileges and accommodation as those extended to residents in the vicinity of Davis Square and East Somerville.

The following locations are suggested as the centre of a population that would appreciate, and be greatly benefited should you open agencies there:—Concord Square, Park Street (near Beacon), Oak Square, Teele Square or some place nearer College Hill, Magoun Square, and the vicinity of the Jackson School.

I would, therefore, suggest that you consider the feasibility of opening at least five more agencies, as soon as the funds at your disposal will warrant the additional expense.

YEARLY ACCESSIONS.

It may be of interest to note the additions of books to the library each year since it was started, as found recorded in the Accession catalogue. These figures denote the total accessions, and include the volumes worn out, lost, or withdrawn.

The library was open to the public May 1, 1873, with 2,384 volumes on its shelves.

	Added Each Year.	Accession No. Dec. 31, of Each Year.
Volumes May 1, 1873	2,384	
Added during 1873	1,251	3,635
“ 1874	1,027	4,662
“ 1875	573	5,235
“ 1876	602	5,837
“ 1877	853	6,690
“ 1878	749	7,439
“ 1879	515	7,954
“ 1880	660	8,614
“ 1881	668	9,282
“ 1882	770	10,052
“ 1883	913	10,965
“ 1884	859	11,824
“ 1885	964	12,788
“ 1886	1,150	13,938
“ 1887	1,165	15,103
“ 1888	1,846	16,949
“ 1889	1,346	18,295
“ 1890	1,817	20,112
“ 1891	1,432	21,544
“ 1892	1,648	23,192
“ 1893	1,677	24,869
“ 1894	2,860	27,729
“ 1895	4,010	31,739
“ 1896	5,016	36,755
Total number Dec. 31, 1896	36,755 volumes.	

The number of books worn out, discarded and lost since the library was started appears to be 2,929 volumes, making the number of volumes at the present time 33,826.

YEARLY APPROPRIATIONS AND COLLECTIONS.

	Appropriations.	Dog Licenses.	Catalogues.	Fines.	Gifts.	Miscellaneous.
Before 1872	\$ 2,237.76	. . . .	. . . .	. . . .	. . . .	. . . .
1872	1,139.33	. . . .	. . . .	. . . .	. . . .	. . . .
1873	4,000.00	. . . .	. . . .	\$ 146.80	\$100.00	. . . .
1874	1,162.29	. . . .	. . . .	237.59	2.80	\$.75
1875	1,000.00	\$ 1,269.96	. . . .	245.14	. . . .	. . . .
1876	. . . .	1,260.29	. . . .	216.46	. . . .	. . . .
1877	1,500.00	1,362.30	. . . .	206.18	. . . .	. . . .
1878	1,200.00	1,080.85	. . . .	224.07	. . . .	. . . .
1879	1,200.00	936.10	. . . .	260.20	. . . .	. . . .
1880	1,500.00	934.23	\$ 46.74	231.92	. . . .	. . . .
1881	1,200.00	927.13	29.72	205.10	. . . .	. . . .
1882	1,500.00	1,018.37	28.80	236.71	. . . .	. . . .
1883	1,500.00	1,083.63	31.30	241.56	. . . .	. . . .
1884	1,500.00	1,307.75	34.24	214.86	. . . .	. . . .
1885	2,500.00	1,402.04	37.17	150.29	. . . .	. . . .
1886	2,500.00	1,728.54	36.60	274.69	. . . .	410.93
1887	3,500.00	1,835.46	21.75	271.74	. . . .	5.00
1888	3,000.00	2,388.30	46.15	283.57	. . . .	. . . .
1889	3,000.00	2,382.90	44.05	293.76	. . . .	15.50
1890	3,000.00	2,631.12	42.30	327.91	. . . .	1.50
1891	3,000.00	2,596.68	24.12	358.06	. . . .	4.34
1892	4,000.00	1,003.97	33.90	420.13	. . . .	4.00
1893	5,500.00	3,655.64	24.00	335.06	. . . .	. . . .
1894	6,500.00	2,710.90	12.40	320.82	. . . .	. . . .
1895	6,500.00	2,693.51	61.75	148.02	. . . .	14.00
1896	8,000.00	2,506.26	71.60	318.72	. . . .	. . . .
Total	\$72,639.38	\$38,715.93	\$626.59	\$ 6,169.36	\$102.80	\$456.02

COMPARISON WITH SOME OTHER CITIES.

The following tables have been compiled from the Report of the Free Public Library Commission of Massachusetts for 1896, and include twenty-five cities and the town of Brookline.

I submit these figures without note or comment, for your inspection, feeling confident they will prove intensely interesting, and possibly instructive reading.

It should be observed, however, that the figures indicating circulation in the case of our library are those for the year 1896, as we were closed to the public a part of the year 1895.

	1894-'95.	Popula- tion 1895.	Valuation 1895.	Volumes.	Circula- tion.	Appro- piation.	Salaries and Services.
	State . . .	2,500,000	\$2,542,348,000	3,139,637	6,267,000	\$437,395	\$275,474.00
	Middlesex Co.	500,000	450,012,000	617,164	1,461,518	82,735	51,550.00
1	Boston . .	497,000	951,368,000	610,375	832,113	155,000	94,139 00
2	Worcester .	98,767	88,065,866	100,000	158,822	23,360	12,600.93
3	Fall River .	89,203	65,238,178	47,422	109,343	5,500	2,626.15
4	Lowell . .	84,367	68,782,042	50,000	151,907	15,000	7,468.43
5	Cambridge .	81,643	80,911,000	46,770	119,631	10,000	6,330.74
6	Lynn . . .	62,354	49,698,000	49,616	130,557	4,500	4,543.01
7	New Bedford	55,251	52,643,000	65,000	104,591	6,450	6,973.75
8	Somerville .	52,200	46,454,000	29,000	106,341	6,500	3,612.87
9	Lawrence .	52,164	33,533,500	37,999	124,724	6,500	4,170.78
10	Springfield .	51,522	59,033,000	90,444	150,796	17,000	8,898.45
11	Holyoke . .	40,322	27,705,000	17,325	47,268	3,000	1,209.45
12	Salem . . .	34,473	28,847,000	29,434	112,349	10,000	5,285.77
13	Brockton . .	33,165	22,541,000	20,850	83,132	5,400	3,438.25
14	Chelsea . .	31,264	22,515,000	14,439	67,483	4,500	2,056.15
15	Haverhill .	30,209	20,793,000	55,400	80,392	3,280	2,567.58
16	Malden . .	29,708	20,072,000	25,155	92,085	5,000	2,975.01
17	Newton . .	27,590	47,388,000	46,755	143,887	14,675	5,788.88
18	Taunton . .	27,115	19,203,000	40,500	73,009	4,500	2,737.66
19	Fitchburg .	26,409	19,855,000	30,000	61,386	4,500	2,955.54
20	Quincy . .	20,712	17,326,000	17,500	73,442	4,270	2,470.00
21	Waltham . .	20,876	18,052,000	22,916	62,845	1,600	1,456.70
22	Pittsfield .	20,461	13,850,000	23,000	60,000	2,000	2,436.73
23	No. Adams .	19,135	7,329,000	13,830	73,944	4,500	1,475.23
24	Brookline .	16,164	59,003,000	41,955	83,222	12,000	5,548.96
25	Medford . .	14,474	16,979,000	16,347	51,439	3,500	1,941.09
26	Woburn . .	14,178	9,673,000	33,203	66,130	2,200	2,866.32

COST OF CIRCULATION.

The following table indicates the relative cost of distributing books, using the amount paid for "salaries and services" as the basis of comparison. Cost of each volume circulated for home use:—

State of Massachusetts				4.3 cents.
County of Middlesex				3.4 “
1.	Boston,	10	cents.	14. Medford, . 3.8 cents.
2.	Worcester,	7	“	15. Taunton, . 3.7 “
3.	New Bedford,	6.7	“	16. Lynn, . 3.4 “
4.	Brookline,	6.6	“	17. Lawrence, . 3.3 “
5.	Springfield,	5.9	“	18. Quincy, . 3.3 “
6.	Cambridge,	5.3	“	19. Malden, . 3.2 “
7.	Lowell,	4.9	“	20. Chelsea, . 3 “
8.	Fitchburg,	4.8	“	21. Haverhill, . 3 “
9.	Salem,	4.7	“	22. Somerville, . 2.6 “
10.	Brockton,	4	“	23. Holyoke, . 2.5 “
11.	Newton,	4	“	24. Waltham, . 2.3 “
12.	Pittsfield,	4	“	25. Fall River, . 2.3 “
13.	Woburn,	4	“	26. No. Adams, . 2 “

RATIO OF CIRCULATION TO NUMBER OF VOLUMES IN LIBRARY.

This table shows the number of times the volumes in each library were circulated during the year:—

State of Massachusetts				2.	
County of Middlesex				2.2	
1.	North Adams,	5.6	14.	Cambridge,	2.6
2.	Chelsea,	4.8	15.	Pittsfield,	2.6
3.	Somerville,	4.5	16.	Lynn,	2.4
4.	Brockton,	4.1	17.	Fall River,	2.3
5.	Quincy,	4	18.	Fitchburg,	2
6.	Salem,	3.8	19.	Brookline,	2
7.	Malden,	3.6	20.	Woburn,	2
8.	Lawrence,	3.3	21.	Taunton,	1.8
9.	Medford,	3.2	22.	Springfield,	1.7
10.	Newton,	3.1	23.	New Bedford,	1.6
11.	Lowell,	3	24.	Worcester,	1.5
12.	Waltham,	2.8	25.	Haverhill,	1.4
13.	Holyoke,	2.7	26.	Boston,	1.3

RATIO OF CIRCULATION TO POPULATION.

This table shows the circulation of books, as compared with number of inhabitants:—

State of Massachusetts				2.5 vols.	
Middlesex County				2.9 “	
1.	Newton,	. 5.2 vols.	14.	Taunton,	. 2.7 vols.
2.	Brookline,	. 5.1 “	15.	Haverhill,	. 2.6 “
3.	Woburn,	. 4.7 “	16.	Brockton,	. 2.5 “
4.	No. Adams,	. 3.8 “	17.	Lynn,	. 2.5 “
5.	Medford,	. 3.6 “	18.	Lawrence,	. 2.3 “
6.	Quincy,	. 3.6 “	19.	Chelsea,	. 2.1 “
7.	Malden,	. 3.4 “	20.	New Bedford,	1.8 “
8.	Brockton,	. 3.2 “	21.	Boston,	. 1.7 “
9.	Salem,	. 3.2 “	22.	Lowell,	. 1.7 “
10.	Waltham,	. 3.1 “	23.	Worcester,	. 1.6 “
11.	Pittsfield,	. 3 “	24.	Cambridge,	. 1.4 “
12.	Springfield,	. 2.9 “	25.	Fall River,	. 1.2 “
13.	Somerville,	. 2.8 “	26.	Holyoke,	. 1.1 “

RATIO OF APPROPRIATION TO POPULATION.

The following figures show the amount appropriated by the several cities, for their public libraries, for each inhabitant:—

State of Massachusetts,				17 cents.
County of Middlesex,				16 “
1.	Brookline, .	75 cents.	13.	Brockton, . 16 cents.
2.	Newton, .	54 “	14.	Taunton, . 16 “
3.	Springfield, .	33 “	15.	Woburn, . 15 “
4.	Boston, .	31 “	16.	Chelsea, . 14 “
5.	Salem, .	29 “	17.	Cambridge, . 12 “
6.	Medford, .	25 “	18.	Somerville, . 12 “
7.	No. Adams, .	23 “	19.	Lawrence, . 12 “
8.	Worcester, .	23 “	20.	New Bedford, 11 “
9.	Quincy, .	21 “	21.	Haverhill, . 10 “
10.	Lowell, .	17 “	22.	Pittsfield. . 10 “
11.	Malden, .	17 “	23.	Waltham, . 8 “
12.	Fitchburg, .	17 “	24.	Lynn, . 7 “

The following have more than one thousand dollars annual income, from invested funds, for the current expenses of their library:—

Boston	\$12,391
New Bedford	3,966
Woburn	3,294
Springfield	2,977
Pittsfield	2,976
Salem	2,690
Fall River	2,389
Haverhill	2,375
Newton	1,848
Malden	1,681
Lawrence	1,228

RATIO OF APPROPRIATION TO VALUATION.

This table shows the amount appropriated for public libraries on each dollar of taxable property:—

State of Massachusetts . . . . .				.00017		
County of Middlesex . . . . .				.00018		
1.	No. Adams,	. . . . .	.00054	14.	Chelsea, . . . . .	.00017
2.	Salem,	34		15.	Medford,	17
3.	Newton,	27		16.	Boston,	15
4.	Worcester,	26		17.	Haverhill,	14
5.	Quincy,	23		18.	Pittsfield,	14
6.	Brockton,	22		19.	Somerville,	13
7.	Taunton, ,	21		20.	Cambridge,	12
8.	Malden,	21		21.	New Bedford,	11
9.	Lowell,	20		22.	Holyoke,	10
10.	Springfield,	20		23.	Woburn,	10
11.	Fitchburg,	20		24.	Lynn,	08
12.	Brookline,	20		25.	Fall River,	07
13.	Lawrence,	17		26.	Waltham,	05

RATIO OF VOLUMES IN LIBRARY TO POPULATION.

This table shows the number of volumes in the several libraries, for each inhabitant:—

State of Massachusetts				1.25	
County of Middlesex				1.23	
1.	Brookline,	2.60	14.	Quincy, . . . . .	.87
2.	Woburn,	2.30	15.	Salem, . . . . .	.86
3.	Springfield,	1.77	16.	Malden, . . . . .	.86
4.	Haverhill,	1.80	17.	Lynn, . . . . .	.80
5.	Newton,	1.70	18.	Lawrence, . . . . .	.73
6.	Taunton,	1.50	19.	North Adams, . . . . .	.70
7.	Boston,	1.22	20.	Brockton, . . . . .	.60
8.	New Bedford,	1.18	21.	Lowell, . . . . .	.59
9.	Fitchburg,	1.15	22.	Cambridge, . . . . .	.57
10.	Pittsfield,	1.15	23.	Somerville, . . . . .	.55
11.	Waltham,	1.14	24.	Fall River, . . . . .	.53
12.	Medford,	1.10	25.	Chelsea, . . . . .	.46
13.	Worcester,	1.01	26.	Holyoke, . . . . .	.43

RANK OF SOMERVILLE IN THE STATE, 26 CITIES.

Population	8
Valuation	11
Volumes in its library	17
Amount of its appropriation	11
Cost per volume for circulation	22

Appropriation to its population . . .	18
Appropriation to its valuation . . .	19
Ratio of circulation to size of library . . .	3
Ratio of circulation to population . . .	13
Ratio of size of library to population . . .	23

HISTORICAL.

It is eminently fitting that whatever belongs to the history of our library should be preserved. This is especially true when we turn to the past and seek to recall the efforts then made which give us the fruitage of the present. As those who have given wise direction to our library affairs with patience, labor and fidelity, are called to that bourne from whence no traveller returns, a just and discriminating sense of gratitude should make some record of their lives and character.

We have taken occasion, in previous reports, to refer to the gratuitous and self-sacrificing labors of the original organizer of this library, who for nearly three years gave his services as librarian, Mr. Isaac Pitman. We are extremely fortunate in securing a short sketch of his life which we embody as a part of this report.

Isaac Pitman was born in Providence, R. I., Aug. 20, 1807. He was the son of Isaac and Ann (Updike) Pitman. His mother was a member of the Updike family, so often conspicuous in Rhode Island annals. His father was born on School Street, Boston, and moved from there to Providence in 1775. He had been a member of the famous Boston Tea Party, and was afterwards a captain in the Continental army. After the war, he was for many years an importer and dealer in hardware in Providence.

Young Isaac at one time attended a dame school, to which colored pupils were admitted. He was quite content, until the admission of a new scholar, when the African race was in the majority. He then strongly objected to being a member of what he, perhaps naturally, called a colored school. The remembrance of this greatly amused him in later life. He afterwards

spent some time at a boarding school in Barrington, R. I., and in 1820 he attended Phillips Exeter Academy. His father died when he was eleven years of age. Most of his youth was spent in Providence, Roxbury and Boston. At the latter place, his home was with an elder married sister, Mrs. Wild, who lived there from 1821 to 1825. About this time, or a little later, on account of his health, he passed a year on a coffee plantation in Cuba, with relatives named Jenks, who wished to adopt him; but he declined, giving, among other reasons, his dislike of the system of slavery. About 1840 he made a trip to Europe on a packet ship, which was the ordinary method at this time of crossing the ocean.

For many years he was a member of the firm of Mixer & Pitman, wholesale dealers in starch and oil. Mr. Mixer carried on a store in Lowell, while Mr. Pitman managed the business in Boston. He also took an interest in military affairs, being an officer in a militia company in Roxbury, and later a member of the Ancient and Honorable Artillery.

In 1844 he married Miss Harriet Minot, daughter of Judge Stephen Minot of Haverhill, Mass., a lady who fully shared his anti-slavery proclivities, and whose mental and social qualities attracted to their home quite a coterie of literary personages, including Whittier, Garrison, Lucy Larcom, Abby M. Diaz and Erastus Brooks.

His brother-in-law, Mr. Charles Minot, died in 1866, and in 1867 Mr. Pitman removed from Providence, where the family had spent several years, to Summer Street, Somerville, where Mrs. Pitman died. After her death, he made his home with his son in Germantown, Pa., where he passed away, somewhat suddenly, December 20, 1891.

Mr. Pitman was a man of ready wit, a good story teller, and a genial companion. In his youthful days he was fond of practical jokes. He used to tell how on one occasion he outwitted a court of justice. Being summoned as a juror, he simply took the juror's oath under protest. The judge, after consideration, saw that it would not do to let such a juror serve, and so excused him. In his business life, his absolute business in-

tegrity was above reproach. In his religious belief, he could accept neither the Unitarian nor Trinitarian view of Christ, although for many years an attendant in Trinitarian churches, either Baptist or Congregational. But when he became acquainted with the doctrines of Swedenborg, he accepted them at once, and ardently advocated them the rest of his life. In his later years, especially, he took great delight in the Bible.

For nearly five years he has slept with his fathers. His remains were interred at Mount Auburn, near the cities of Boston and Somerville, which he loved so well, and where so much of his life was passed.

His surviving children are Mrs. Harriet M. Laughlin of Boston and Mr. S. Minot Pitman of Providence. The oldest son, a youth of much promise, died in 1867, while a student of the Harvard Law School.

CONCLUSION.

We have considered, perhaps at too great length, the work of our Public Library during the year 1896. All that has been done, however open to criticism, has been done with a profound recognition of the responsibility laid upon me and my associates by your honorable board. As I review the past, with all its imperfections and shortcomings, I am constrained to say that there is no accident, all things are by design. Every failure has come, not by any fortuity, but because of imperfect adaptation of means to ends. The future remains. The old Latin command *carpe diem*, seize your opportunity, is still in force. The work must go on and enlarge. The growth of the city is steady. Intelligence is on the increase. Not only men and women, but boys and girls are waking to a realization of what can be wrought out of the material of life by the use of the agencies of life. No, there is no accident, everything is intended. The avenues of power are on every side, and in the language of Lord Bacon, "Knowledge is power." A spider's web gave Sir Samuel Brown the hint of the suspension bridge. A ship-worm eating its way through a block of wood made known to Brunel the possibility and method of the Thames Tunnel.

The things we call trivial and commonplace may help us to solve some momentous problem in the great mystery of intelligent life, even as a spider's most attenuated thread stretched with care across the open lens helps the astronomer as he points his telescope to the stars. As there is no accident, so there is nothing insignificant. Who knows what a fulcrum our Public Library shall be for some future Archimedes to move the world.

It is again my privilege, as another year completes its course, to return my sincere and grateful thanks to you, gentlemen of the Board of Trustees, for your uniform consideration and generous encouragement. In my own name, and in the name of those associated with me, I beg you to accept this single word of appreciation. I do not venture to claim unfailing success. I do claim honest effort, not at my hands only, but at the hands of those who have been so faithful in all the departments of this institution. They have done their work with patience, fidelity and cheerfulness. I bespeak for them your cordial approval.

And now as another year opens upon us, may its watchword be, not glory, but duty. So shall this library become nobler in character, more expansive in influence, more helpful in building up the city of our habitation in all that makes for virtue, intelligence, thrift, and faith.

Respectfully submitted,

JOHN S. HAYES,
Librarian.

December 28, 1896.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, February 10, 1897.

Referred to Committee on Printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk*.

IN COMMON COUNCIL, February 11, 1897.

Referred to Committee on Printing, to be printed in the annual reports,
in concurrence.

CHAS. S. ROBERTSON, *Clerk*.

SOMERVILLE MYSTIC WATER BOARD, 1896.

GEORGE D. WEMYSS, *President*.

GEORGE A. KIMBALL (term expires 1897).

Residence, 33 Warren avenue.

WM. FRANKLIN HALL (term expires 1898).

Residence, 345 Broadway.

GEORGE D. WEMYSS (term expires 1899).

Residence 5 Austin St.

CLERK OF THE WATER BOARD.

FRANK E. MERRILL.

SUPERINTENDENT OF WATER WORKS.

NATHANIEL DENNETT.

ENGINEER AT PUMPING STATION.

SIDNEY E. HAYDEN.

PUMPING STATION,

Cedar street, near Broadway.

Bills against the department should be rendered to the Clerk on or before the first day of each month, and are payable by the City Treasurer on the seventeenth of the month.

CITY OF SOMERVILLE.

Office of the Water Board, January 1, 1897.

To His Honor, the Mayor, and the City Council:—

The Somerville Mystic Water Board present herewith, for your consideration, the twenty-third annual report of the department in their charge, covering the year ending December 31, 1896.

The organization of the Board was effected on the 8th of February, by the re-election of George D. Wemyss as President, and Frank E. Merrill as Clerk of the Board. N. Dennett was re-elected Superintendent.

FINANCES.

COST OF WATER WORKS.

The total cost of the water works on Dec. 31, 1895, was	\$667,976.93
Expended during the year 1896 on construction account	16,631.83
Total cost December 31, 1896	<u>\$684,608.76</u>

WATER DEBT.

The indebtedness of the city on account of the water works on December 31, 1895, was \$321,500.00; this debt has been reduced during 1896 by the payments of bonds maturing July 1 and October 1, to the amount of \$18,500.00; water loan bonds amounting to \$12,000.00 have been renewed, leaving the net re-

duction of the water debt \$6,500.00; the indebtedness being now represented by bonds drawing interest as follows:—

\$248,000.00	at 4	per cent. per annum.
57,000.00	at 5	per cent. per annum.
10,000.00	at 5½	per cent. per annum.

The income from water in 1896, being 50 per cent.
of the amount collected by the City of Boston
from sale of water in Somerville, and paid
over to the City Treasurer of Somerville,
was \$95,719.69

The disposition made of this income was as follows:—

Appropriated by the City Council for the use of the water de- partment	\$76,000.00	
Applied to interest on water debt	13,612.50	
Applied to reduction of water debt	6,107.19	
	<hr/>	\$95,719.69

The following table, exhibiting the financial condition of the department from its first movements, is presented for reference and comparison:—

YEAR.	Water Loan Bonds Issued on Funded Debt Account.	Reduction of Funded Debt by Payments of Water Loan Bonds.	Expenditures for Construction of Water Works.	* Revenue from Water Works.
1869	\$80,000.00		\$92,203.27	\$ 911.39
1870	60,000 00		66,546.50	1,907.63
1871	60,000.00		43,648.66	3,151.30
1872	90,000.00	\$50,000.00	43,288.33	3,719.91
1873	60,000.00	20,000.00	27,691.26	5,084.97
1874	15,000.00		34,294.06	6,818.20
1875	20,000.00		13,375.76	9,652.37
1876	70,000.00	60,000.00	6,409.49	10,268.06
1877	10,000.00		13,845.74	10,735.90
1878	30,000.00	30,000.00	514.13	11,584.89
1879			791.56	12,341.60
1880	60,000.00	60,000.00		12,999.79
1881	40,000.00	40,000.00		14,697.37
1882	90,000.00	90,000.00		19,354.28
1883	7,500.00	7,500.00		19,661.67
1884	20,000.00	20,000.00		20,085.95
1885	20,000.00	20,000.00		21,542.28
1886	55,500.00	55,500.00		21,444.91
1887	9,000.00	9,000.00		42,650.57
1888	25,000.00	96,500.00	19,338.89	50,419.07
1889	90,000.00	19,000.00	81,117.43	51,470.91
1890	55,000.00	13,000.00	53,411.79	55,879.72
1891	10,000.00	†11,000.00	40,708.48	60,150.80
1892	28,000.00	28,000.00	34,863.17	77,640.91
1893		17,000.00	35,545.30	78,459.73
1894		18,000.00	28,375.67	83,401.30
1895		19,000.00	32,007.44	89,431.46
1896	‡12,000.00	18,500.00	16,631.83	95,719.69
	\$1,017,000.00	\$702,000.00	\$684,608.76	\$891,186.63

Total issue \$1,017,000.00

Total payments 702,000.00

Present water debt \$315,000.00

* From 1869 to 1886, inclusive, the basis of Somerville's water revenue was as follows :—
The entire revenue from sale of water in Somerville was collected by the City of Boston and payments were made to this city on the following sliding scale ; —

On annual receipts up to \$20,000.00, Somerville's proportion was 15 per cent.
On annual receipts \$20,000.00 to \$30,000.00, Somerville's proportion was 20 per cent.
“ “ \$30,000.00 to \$40,000.00 “ “ “ 25 “
“ “ \$40,000.00 to \$50,000.00 “ “ “ 30 “
“ “ exceeding \$50,000.00, Somerville's proportion was 40 per cent.

In 1887 the contract was changed so that Somerville should receive 50 per cent of the revenue, and this contract is still in effect.

† In 1891 \$5,000.00 of Water Loan Bonds were cancelled, City Loan Bonds being substituted for them.

‡ Renewal.

RENEWAL OF WATER MAINS.

It gives the Board much satisfaction to record the great improvement thus far made in the distribution system of the city, owing to the liberality of the appropriations granted to this department by your honorable body for the maintenance of the works, by reason of which the number of bursts in the street mains and the claims for damages arising therefrom are being reduced very largely from former years.

While the arguments advanced by this Board in previous years for sufficient money to render the streets and the property of our citizens more secure have not had the effect, as yet, of enabling us to place the city on a perfectly secure basis in this respect, it is yet a source of gratification to the Board to feel, and to report to you, that great progress has been made in this direction. It is hoped that another year's work will remove from our distribution service the last of the weak cement-lined pipe, which can be done if the earnings of the department be applied to this end.

About five miles of old pipe have been renewed during the year, largely in the East Somerville district. There are now in our streets about fifteen miles of cement-lined pipes; a considerable portion of these were, however, laid in comparatively recent years, and are thought to be in reasonably safe condition. It will, nevertheless, require the best efforts of the Board, and a liberal appropriation of money by the City Council, to take care of those street mains which are now considered absolutely insecure.

EXTENSION OF THE WORKS.

The calls for extension of the water mains have not been as numerous in 1896 as in years past; while nearly as many new buildings have been constructed, they have, to a large extent, been erected on the lines of pipe already laid. While much undeveloped land still remains within our borders, which will eventually be used for residential purposes, it is the opinion of the Board that the demands for pipe on construction account will

SOMERVILLE WATER WORKS.

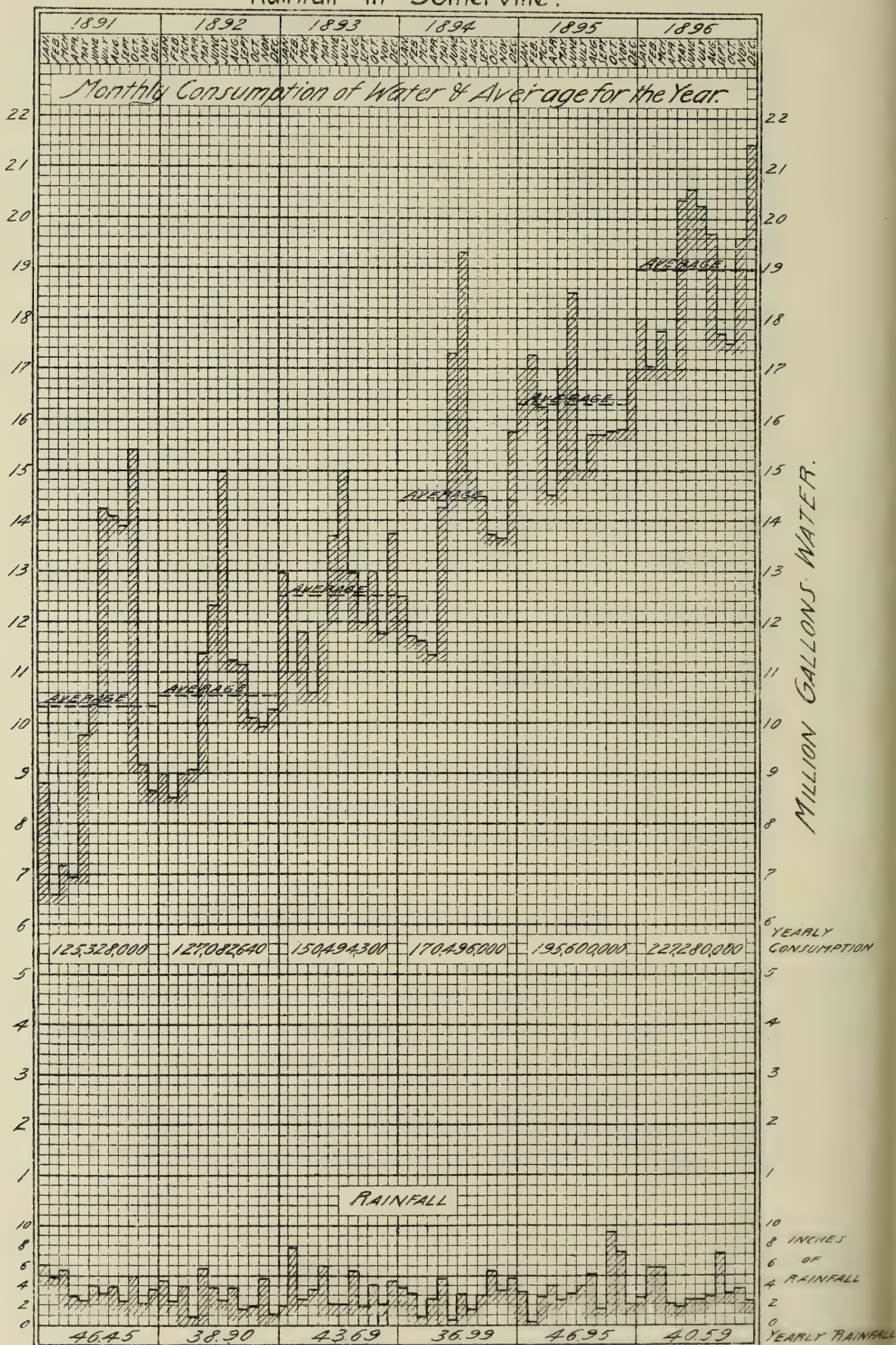
CHART SHOWING THE CONSUMPTION OF WATER IN THE DISTRICT SUPPLIED

BY THE

Somerville High Service

also the

Rainfall in Somerville.



not be as heavy as formerly; this is largely due to the liberal policy adopted by the Board in granting all petitions for extension of water mains where it could be shown that the city would receive a four per cent. return on the cost of the work. It is believed that the policy thus pursued has proven advantageous to the city's interests.

Nearly two miles of pipe have been laid in streets now or formerly supplied with water by the city of Cambridge. These streets lie in the vicinity of the Cambridge line, and were furnished with water from the distribution system of that city before the introduction of Mystic water into Somerville, and the annual revenue from water rates assessed on this territory has since accrued to the city of Cambridge.

This section has now been covered with our own mains, and on May 1st '73 service connections, in the South street district, were transferred from the Cambridge system to our own. The pipes in the district between Columbia and Oak streets were not laid until late in the season, and the 200 or more services will not be transferred until next spring, Cambridge having contracted to furnish the water until that time. The income from these houses will form a large addition to our present water revenue, and the investment will be a paying one to this city.

The total length of distribution pipe in the city to January 1, 1897, is 76 miles, 593 feet.

A net increase of 72 has been made in the number of new hydrants, making the total number in the city, both public and private, 764.

Seven new water-posts have been constructed for the convenience of the street-watering department, and a new drinking fountain has been set in Teele square and connected with the water main.

WATER SERVICES.

Three hundred and seventy-five applications have been made by house owners for water service connections. The general depression in business has undoubtedly had its effect in

retarding building operations, yet the number of house service applications is but 39 behind last year's records.

Seventy-three other connections, for which no charge was made to the owners, have been added to our system, replacing pipes that the owners had previously paid for to the city of Cambridge.

HIGH SERVICE.

This branch of the works is being maintained and operated with the same general satisfaction as heretofore. The area of the district supplied by the operation of this plant remains the same as last year, but the growth in population in this section requires largely increased pumpage, which is clearly indicated on the chart shown herewith.

The standpipe has been thoroughly cleaned inside, the sediment removed, and the exterior recaulked and treated to a coat of paint.

The pumping engine and boilers have been kept in good condition, and have continued to work satisfactorily.

It may be well to note here that the largest day's pumping ever performed at our station was on the 27th of December, when 965,600 gallons were raised. This is accounted for by the cold weather about that period and the probability that the consumers undertook to prevent freezing in their pipes by allowing the water to waste through them. This is a matter which, if often repeated, will bear investigation, and may necessitate the adoption of measures for restricting the undue consumption of water.

IN GENERAL.

Contracts for pipe and fittings have been made during the year on terms very advantageous to the city, the policy of buying in large quantities early in the season having been effective in bringing out very low prices. Cast-iron pipe has been bought for \$19.89 per ton of 2240 lbs. f. o. b. cars at our pipe yard, and other supplies have been purchased at figures lower than ever before obtained by the department.

Inasmuch as it will be necessary, in accordance with provisions of the Metropolitan Water Bill, for Somerville to take charge, on and after January 1, 1898, of the assessment and collection of water rates within its own territory, a large amount of work incidental thereto will be thrown upon this department during the coming year, and the Board, through its Clerk, is anticipating this new business by an investigation of the systems in use in other cities which have had a long experience in this branch of the water business, with the view of obtaining the best system possible for our own city.

WATER SUPPLY.

An outline of the proposed Metropolitan water supply, so far as it affects Somerville, has been given in a former report. No pipe of this system has yet been laid in Somerville, but it has reached our doors, having been laid through Cambridge in Norfolk street to our city line. Operations will be commenced early in the spring to carry the eastern line of the pipe to the Mystic river by way of Union square and Walnut street, and assurance is given us by the Metropolitan Water Board that everything will be in readiness to furnish Somerville with Nashua river water on January 1, 1898.

A short description of the important features of this great scheme may be of interest to those unacquainted therewith. The south branch of the Nashua river, which it is proposed to utilize as a water supply, is formed by streams which take their rise on the easterly and southerly slopes of Mt. Wachusett. It is intended to use a portion of this river basin for a storage reservoir, and some idea of its extent may be gained from the fact that it wipes out of existence a thriving town, four cotton mills, four churches, six schoolhouses, nearly seven miles of railroad, two hundred and twenty-four dwellings, and will require 1711 people to remove to other locations.

The reservoir will have a shore line of over thirty-five miles, and its surface will form the largest body of fresh water in Massachusetts. Its capacity is 63,068,000,000 gallons, which is

four times that of all the Boston water works reservoirs combined.

The elevation of the level of full reservoir is 385 feet above level of high tide in Boston harbor, and the estimated cost of construction of this part of the work is \$9,000,000.00.

The dam which is to confine this great body of water is to be 1250 feet in length, 129 feet in height above the level of the ground and 119½ feet in thickness at its foundation.

The water is to be conveyed from this reservoir through an aqueduct having a daily delivering capacity of 300,000,000 gallons, a part of the aqueduct being in tunnel and a part in open channel, to the reservoir at Chestnut Hill. At this point the water which to be used in the North Metropolitan District is to be lifted by three high-duty pumps of great capacity to a height of thirty or more feet, whence it will flow through the two forty-eight inch pipes, through Somerville, on its way to Spot Pond, which is to be utilized as a distributing reservoir. Near Spot Pond a pumping station and reservoir are to be constructed for the supply of the entire northern high-service district, and from this will eventually be furnished the water now supplied to our high lands by our local pumping station.

Our citizens have occasion to congratulate themselves on the prospective early realization of this great desideratum.

For details of the work performed by the department, reference is asked to the tables compiled by the Clerk of the Board from the books under his charge, and presented herewith.

GEORGE D. WEMYSS,

GEORGE A. KIMBALL,

WM. FRANKLIN HALL,

Somerville Mystic Water Board.

Somerville, January 1, 1897.

To the Somerville Mystic Water Board:—

Gentlemen,—Following is presented a series of tabular statements compiled from the books in my charge, showing details of the work performed by the Water Department during the year 1896, together with revised tables showing the location of hydrants and other fixtures connected with the water-works system.

Respectfully submitted,

FRANK E. MERRILL,

Clerk of the Board.

RECEIPTS AND DISBURSEMENTS FOR THE YEAR 1896.

WATER MAINTENANCE ACCOUNT.

	Dr.	Cr.
Balance from 1895		\$ 2,974.50
Amount appropriated by City Council from water revenue		40,000.00
Transferred by City Council from extension account		20,000.00
Collections from sundry accounts for labor and materials		10,915.71
Balance from water service assessments		1,698.41
Materials furnished construction account	\$ 7,040.77	
Materials furnished service department	1,999.77	
Labor and materials furnished sundry parties	1,801.90	
Labor and materials used in maintenance of the water works	64,486.29	
Balance to credit of water debt	259.89	
	<hr/>	<hr/>
	\$75,588.62	\$75,588.62

WATER WORKS EXTENSION ACCOUNT.

	Dr.	Cr.
Balance from 1895		\$ 631.83
Amount appropriated by City Council from water revenue		36,000.00
Amount transferred by City Council to maintenance account . .	\$20,000.00	
Labor and materials used in extension of the water works	16,631.83	
	<hr/>	<hr/>
	\$36,631.83	\$36,631.83

WATER SERVICE ACCOUNT.

	Dr.	Cr.
1 water service assessment at		\$ 17.40
17 water service assessments at \$19.40		329.80
1 water service assessment at		16.20
360 water service assessments at \$15.00		5,400.00
Collections from sundry accounts for labor and material		112.87
Labor and material furnished sundry parties	\$ 112.87	
Labor and material used in water service construction	4,064.99	
Balance transferred to water maintenance account	1,698.41	
	<hr/>	<hr/>
	\$5,876.27	\$5,876.27

TABLE B.—Continued.

NAME OF STREET.	FROM	To	PIPE LAID.		GATES SET.		HYDRANTS SET.		BLOW-OFFS.		WATER-POSTS.	FOUNTAINS.	COST.
			Size.	No. Feet.	Size.	No.	Kind.	No.	Size.	No.			
Fremont st.	East Albion st.	North to dead end	10"	180									\$290.33
"	Hydrant connection	Dead end	6"	6									
Garfield ave.	263 feet N. from Broadway		6"	1,107	6"	2		1					936.41
Gilman st.	"	and gate	6"	6				3					
Glass House ct.	Webster ave.	Dead end	6"	21	10"	1							
Glen st.	Hydrant connection		16"	48	16"	1		2					172.60
Hall ave.	"		6"	28				1					
"	Dead end		6"	7									
Harding st.	South st.	Con. with Liberty ave.	10"	200	10"	1							432.44
Highland ave.	E. line Elm st.	Dead end	6"	115	6"	1							103.78
"	Hydrant connections	41 feet W. from Dover st.	12"	150				2			1		364.31
Houghton st.	Water post		6"	33	6"	1							
Hudson st.	Prospect st.	W. line Oak st.	2"	12	2"	1							
Hunting st.	Hydrant connection		10"	553	10"	2		3					43.83
Ibbetson st.	South st.	Dead end	6"	18	6"	1							736.90
"	Somerville ave.	Dead end	6"	125	6"	1							142.91
Jaques st.	Hydrant connection		6"	562	8"	1		2					84.97
Jenny Lind ave.	Water post		2"	21	2"	1							
Liberty ave.	Con. with high service		6"	15									670.98
Lowell st.	Dead end	Con. with Hall ave.	6"	8									46.22
"	Brastow ave.	79 feet N. from Crown st.	12"	15									42.24
"	Albion st.	Princeton st.	10"	186									29.86
Malloy ct.	Hydrant connection		6"	429	10"	1		1					180.24
Medford st.	Dead end	Extended	6"	6									622.96
Moreland st.	Water post		1 1/2"	114									
"	296 feet N. from Meacham st.		1 1/2"	18	2"	1							29.93
"	Hydrant connection	190 feet N. from E. Albion st.	6"	440	6"	2							42.36
Mount Vernon St.	Main in Moreland st.		6"	12				2					
Monmouth st.	Hydrant connection	Con. with hydrant branch	6"	14	6"	1							697.62
Murdock st.	Hydrant connection		6"	6				1					54.96
Museum st.	62 feet W. from Central st.	162 feet W. from Central st.	6"	100									77.88
"	Hydrant connection		6"	5				1					
"	Beacon st.	Dead end	6"	223	6"	1							219.71

TABLE B.—Continued.

NAME OF STREET	FROM	TO	PIPE LAID.		GATES SET.		HYDRANTS SET.		BLOW-OFFS.	WATER-POSTS.	FOUNTAINS.	Cost.
			Size.	No. Feet.	Size.	No.	Kind.	No.				
Mystic ave.	Hydrant connection	Somerville ave.	6"	11	6"	1	Mathews.	1				\$286.36
Mystic st.	Washington st.		6"	358	6"							
Mystic st.	Hydrant connection	4 feet N. from Camb'ge line.	6"	6	6"	1	Chapman.	1				340.69
Norfolk ave.	Webster ave.		6"	353	6"							48.49
Norwood ave.	Con. with high service	10 feet N. from Camb'ge line.	6"	20	6"	3						
Oak st.	Prospect st.		6"	1,256	6"		Chapman.	2				1,011.01
Oliver st.	Hydrant connection		6"	12	6"		Chapman.	1	6"	1		
Orchard st.	"		6"	7	6"							
Otis st.	Water post		2"	8	2"	1	Chapman.	1		1		35.05
Partridge ave.	Hydrant connection		6"	6	6"							42.66
Paulina st.	Con. with high service	So. line Broadway	6"	12	10"	1						
"	184 feet N. from Holland st.		10"	577			R. M. I.; M. 2	3				763.10
Perkins st.	Hydrant connection		6"	32	6"		Mathews.	1				
"	"		6"	6	6"							
Pinckney st.	Line gate		6"	20	6"		Mathews.	3				
"	Hydrant connection				8"	1						
Porter st.	Line gate		6"	15	8"		Chapman.	2				
Princeton st.	Hydrant connection	Lowell st.	6"	653	6"	2						782.59
Prospect st.	Alpine st.	Con. with Houghton st.	10"	1,022	10"	1						1,355.60
"	10 feet N. from Concord ave.		6"	4	6"		Chapman.	1				
"	Hydrant connection	and gates	6"	13	8"	2	B. M. & C. Holyoke.	2				
Rush st.	"		6"	14	6"	1						209.12
Sargent ave.	Cherry st.	Ashland st.	6"	280	6"		Chapman.	1				29.06
Sartwell ave.	Cameron ave.	Dead end	1"	158	6"							
Seven Pines ave.	Hydrant connection		6"	20	10"	1						
Shawmut st.	Emery st.	3 feet E. from E. line Water st.	6"	417	10"		Chapman.	2				\$49.11
South st.	3 feet E. from E. line Water st.	Dead end	3"	128	3"	1	Chapman.	1				693.04
"	Hydrant connection		6"	10	6"	2						98.90
"	Highland ave.	Belmont st.	6"	738	6"		Holyoke.	1				
Spring Hill Ter.	Hydrant connection		6"	5	6"							358.34
Stone ave.	Dead end	Washington st.	6"	508	6"		Chapman.	2				
"	Hydrant connection		6"	27	6"							

TABLE C.
LOCATION AND LENGTH OF PIPES RELAID, GATES AND HYDRANTS RESET, 1896.

NAME OF STREET.	FROM	To	PIPE LAID.		GATES.			HYDRANTS.			Cost.	
			Size.	Length in Feet.	Aband.	Rest.	Aband.		Reset.			
							Size.	No.		Kind.		No.
Auburn ave.	Cross st.	Dead end	4"	611	4"	1	6"	1			\$525.01	
"	Hydrant connection	Bonair st.	4"	15	4"	1	6"	1			381.72	
Autumn st.	Broadway	Union st.	4"	440	4"	1	6"	1			536.42	
Benedict st.	89 ft. E. from Austin st.		4"	529	4"	1	6"	1				
"	Hydrant connection		4"	6	4"	2	8"	2				
Bonair st.	Cross st.	Walnut st.	4"	1,561	4"	2	8"	2	Bigelow.	Chapman.	2	
"	Hydrant connection		4"	13	4"	1	6"	1				
Brastow ave.	Lowell st.	Con. with 4" pipe	4"	575	4"	1	6"	1	B. M.	Mathews.	1	
"	Hydrant connection		4"	6	4"	2	6"	2				
Brook st.	Cross st.	Glen st.	4"	549	4"	2	6"	2				
"	Hydrant connection		4"	7	4"	4	6"	4	Holyoke	Holyoke.	1	
Central st.	Hydrant	Fairlee st.	4"	1,305	4"	8"	8"	8"			1,337.01	
Cherry st.	Elm st.	Con. with 4" main	4"	596	4"	8"	8"	8"			696.37	
Clyde st.	26 feet E. from Cedar st.		4"	5	4"	6"	6"	6"				
"	Hydrant connection	Avon pl.	6"	2,244	6"	4	12"	4	Bigelow.	Chapman.	1	
Cross st.	Broadway		4"	18	4"	1	6"	1				
"	Hydrant connection	Dead end	4"	150	4"	1	6"	1			4,877.52	
Cross st. pl.	Cross st.		3"	13	3"	1	6"	1			114.49	
"	Con. with Cross st.	Everett ave.	6"	450	6"	1	6"	1			528.67	
Dana st.	Bonair st.	Franklin st.	6"	8"	1,093	3	8"	3			1,966.33	
Flint st.	Cross st.	Walnut st.	6"	10"	1,461	2	10"	2			2,070.52	
Gilman st.	Cross st.		6"	14	4"-6"	3	6"	3	B. M.	Chapman.	1	
"	Hydrant connection	and from Pearl st to Flint st.	4"-6"	14	4"-6"	3	6"	3				
Glen st.	Br'dway to Webster st.		4"	1,150	4"-6"	4	6"	4			1,070.76	
"	Hydrant connection		4"	12								
Hall ave.	Hydrant reset											
Hammond st.	Hydrant	E. line Elm st.	10"	573	10"	1	10"	1	B. M.	Mathews.	1	
Highland ave.	E. line Grove st.		10"	573	10"	1	10"	1	B. M.	Holyoke.	1	
"	Hydrant		10"	573	10"	1	10"	1	Holyoke.	Chapman.	1	
"			10"	573	10"	1	10"	1	Chapman.	Mathews.	1	
Houghton st.	W. line Oak st.	Springfield st.	4"	232	4"	1	10"	1	Holyoke.	Chapman.	1	
"	Hydrant connection		4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"			4"	6	4"	1	10"	1	Holyoke.	Chapman.	1	
"	</											

TABLE C.—Continued.
LOCATION AND LENGTH OF PIPES RELAID, GATES AND HYDRANTS RESET, 1896.

NAME OF STREET.	FROM	To	PIPE LAID.		GATES.		HYDRANTS.		Cost.	
			Size.	Length in Feet.	Aband.	Reset.	Abandoned.			Reset.
							Kind.	No.			Kind.	No.
Holland st.	5 feet W. from Dover st.	Con. with Winter st.	10"	455	1	12"	1			819.04
"	Hydrant connection		6"	10						
James st.	Con. with Veazie st.		6"	20	1	6"	1			11.10
Linwood pl.	Linwood st.	Dead end	1"	136	1	1 1/4"	1			39.53
Lowell st.	Summer st.	Brastow ave.	6"	213						427.84
Murdock st.	Cedar st.	Clyde st.	4"	884	1	8"	1			
"	Hydrant connection		4"	5						
Mystic ave.	Tenney ct.	5 ft. E. from No. Union st.	6"	236	1	10"	1			880.10
"	"	East to dead end	4"	150						
"	Hydrant connection		4"	21						
Oliver st.	192 feet W. from Glen st.	Franklin st.	4"	724	2	8"	2			864.22
Otis st.	Dana st.	Wigglesworth st.	4"	368	1	8"	1			369.71
Perkins pl.	Con. with Perkins st.		4"	2	1	4"	1			11.55
Perkins st.	Myrtle st.	4 ft. W. from Ch'st'n line.	3"	1,139	1	8"	1			
"	Hydrant connection		6"-8"	10						
Pinckney st.	Perkins st.	Washington st.	6"	1,210	3	8"	3			1,650.91
"	Hydrant connection		6"	29						
Porter st.	Elm st.	Summer st.	4"	1,188						1,131.61
Richdale ave.	Hydrant	Flint st.	4"	1,474	3	8"	3	Coffin.	Holyoke.	
Rush st.	Broadway		4"	3						
"	Hydrant connection		4"	6"	1	6"	1			1,840.05
Sargent ave.	Broadway	Walnut st.	4"	1,104						
"	Hydrant connection		4"	6						996.54
Shawmut st.	Washington st.	12 ft. N. from Washngt'n st.	4"	46	1	8"	1	B. M.	Holyoke.	103.84
Sydney st.	Hydrant									
Somerville ave.	"									
Tufts st.	Cross st.	30 ft. N. from Washngt'n st.	6"	935	1	12"	1	Holyoke.	Mathews.	1,750.86
"	Hydrant connection		6"	13						
Union st.	Con. at Broadway	Mystic ave.	4"	322						670.95
"	Con. with Broadway		4"	6						
Veazie st.	Walnut st.	James st.	6"	189						118.56
Wigglesworth st.	Bonair st.	50 ft. S. from Sunnyside av.	6"	361	1	6"	1	B. M.		252.65

TABLE C.—*Concluded.*
LOCATION AND LENGTH OF PIPES RELAID, GATES AND HYDRANTS RESET, 1896.

NAME OF STREET.	FROM	TO	PIPE LAID.			GATES.			HYDRANTS.			Cost.	
			Size.		Length in Feet.	Aband.	Reset.	Abandoned.	Reset.	No.			
			Aband.	Relaid.									
											Size.		No.
Williams ct.	Porter st. Broadway Cross st. Hydrant connection	Dead end Dead end Glen st.	3"	4"	164	1	4"					104.43	
Wilson ave.			2"	4"	300	1	4"					199.65	
Webster st.			6"	8"	531	2	8"					}	621.85
"			6"	6"	6								
					25,894	46	45	17			16		

SUMMARY.

SIZE.									
1"	1½"	2"	3"	4"	6"	8"	10"	12"	
136	136	300	179	13,335	10,767	149	1,028		
				616	6,352	12,119	2,502	4,169	
1	1	2	1	20	20	2	4	6	
				3	13	18			

Number of feet of cement-lined pipe abandoned .	
" " iron pipe laid in its place .	
Number of stop gates removed from old mains .	
" " set on relaid mains .	

TABLE D.

HYDRANTS.—CONSTRUCTION ACCOUNT.

New hydrants have been set in the following locations:—

Alpine street, 299 feet west from Lowell street, 6-inch Holyoke.
Auburn avenue, 239 feet west from Cross street, 6-inch Chapman.

Bolton street, 203 feet north from Houghton street, 6-inch Chapman.

Bonair street, 26 feet west from Cross street, 6-inch Chapman.

Bonair street, 121 feet east from Arthur street, 6-inch Chapman.

Bonair street, 67 feet east from Dana street, 6-inch Chapman.

Bonair street, opposite Melvin street, 6-inch Chapman.

Brastow avenue, 115 feet west from Lowell street, 6-inch Mathews.

Broadway Park, near the pond, 6-inch Holyoke.

Cherry street, 7 feet south from Sartwell avenue, 6-inch Mathews.

Cherry street, 254 feet north from Sartwell avenue, 6-inch Mathews.

Cherry street, 250 feet north from Summer street, 6-inch Mathews.

Clyde street, 254 feet east from Cedar street, 6-inch Chapman.

College avenue, 700 feet north from Broadway, 6-inch Compression.

Columbia street, 3 feet south from Beach avenue, 6-inch Chapman.

Columbia street, 8 feet south from Columbia court, 6-inch Chapman.

Cross street, 32 feet north from Cross street place, 6-inch Chapman.

Cross street, 62 feet north from Flint street, 6-inch Chapman.

Cross street, 13 feet south from Auburn avenue, 6-inch Chapman.

Flint street, 59 feet east from Cross street, 6-inch Chapman.

Flint street, 30 feet west from Franklin street, 6-inch Mathews.

Fremont street, 22 feet north from E. Albion street, 6-inch Mathews.

Garfield avenue, 22 feet south from Mystic avenue, 6-inch Holyoke.

Gilman street, 261 feet west from Aldrich street, 6-inch Chapman.

Gilman street, 8 feet west from Aldrich street, 6-inch Chapman.

Gilman street, 293 feet west from Cross street, 6-inch Chapman.

Glen street, 147 feet south from Broadway, 6-inch Holyoke.

Glen street, 6 feet north from Webster street, 6-inch Holyoke.

Hall avenue, 9 feet west from Liberty avenue, 6-inch Mathews.

Highland avenue, 32 feet west from Spring Hill terrace, 6-inch Holyoke.

Highland avenue, 218 feet west from Grove street, 6-inch Mathews.

Hudson street, 9 feet east from Waldo street, 6-inch Mathews.

Hudson street, opposite Benton avenue, 6-inch Chapman.

Hudson street, 384 feet west from Lowell street, 4-inch Boston Machine.

Ibbetson street, 256 feet north from Somerville avenue, 6-inch Mathews.

Ibbetson street, 521 feet north from Somerville avenue, 6-inch Mathews.

Lowell street, 3 feet south from Princeton street, 6-inch Holyoke.

Moreland street, 345 feet north from Meacham street, 6-inch Chapman.

Moreland street, corner of E. Albion street, 6-inch Chapman.

Murdock street, 263 feet north from Clyde street, 6-inch Chapman.

Mt. Vernon street, 7 feet south from Perkins street, 6-inch Mathews.

Mystic avenue, opposite Tenney court, 6-inch Chapman.

Mystic street, 160 feet south from Washington street, 6-inch Chapman.

Oak street, 8 feet west from Prospect street, 6-inch Chapman.

Oak street, 315 feet north from Houghton street, 6-inch Chapman.

Oliver street, 7 feet west from Franklin street, 6-inch Chapman.

Otis street, 6 feet east from Wigglesworth street, 6-inch Chapman.

Paulina street, 184 feet north from Holland street, 6-inch Mathews.

- Paulina street, 288 feet south from Broadway, 4-inch Boston Machine.
- Paulina street, 5 feet south from Broadway, 6-inch Mathews.
- Perkins street, 24 feet east from Pinckney street, 6-inch Mathews.
- Pinckney street, 11 feet north from Washington street, 6-inch Mathews.
- Pinckney street, opposite Wheeler street, 6-inch Mathews.
- Pinckney street, 71 feet south from Pearl street, 6-inch Mathews.
- Porter street, 282 feet south from Summer street, 6-inch Chapman.
- Porter street, 8 feet north from Parker Place, 6-inch Chapman.
- Prospect street, 286 feet north from Houghton street, 6-inch Chapman.
- Rush street, 11 feet north from Pearl street, 6-inch Chapman.
- Rush street, 128 feet north from Brook street, 6-inch Boston Machine.
- Sargent avenue, 361 feet west from Walnut street, 6-inch Holyoke.
- Sargent avenue, 95 feet west from Walnut street, 6-inch Holyoke.
- Shawmut street, 9 feet north from Washington street, 6-inch Chapman.
- South street, 25 feet west from Hunting street, 6-inch Chapman.
- South street, opposite Water street, 6-inch Chapman.
- Spring Hill Terrace, 333 feet south from Highland avenue, 6-inch Holyoke.
- Stone avenue, 118 feet north from Washington street, 6-inch Chapman.
- Stone avenue, 275 feet south from Columbus avenue, 6-inch Chapman.
- Trull street, 3 feet south from Medford street, 8-inch Chapman.
- Trull street, 279 feet south from Medford street, 6-inch Chapman.
- Trull street, 522 feet north from Vernon street, 6-inch Chapman.
- Tufts street, 56 feet south from Dell street, 6-inch Mathews.
- Tufts street, 150 feet south from Glen street, 6-inch Mathews.

Union street, opposite Benedict street, 6-inch Mathews.
Water street, 91 feet north from South street, 6-inch Chapman.
Water street, 254 feet north from South street, 6-inch Chapman.
Water street, 354 feet north from South street, 6-inch Chapman.
Webster street, 9 feet east from Cross street.

TABLE E.

HYDRANTS—RENEWAL ACCOUNT.

The following changes have been made in the kind and location of hydrants:

Bonair street, 6-inch Chapman hydrant set 117 feet east from Walnut street, to replace 4-inch Bigelow hydrant removed from 56 feet east from Walnut street.

Bonair street, 6-inch Chapman hydrant set 95 feet east from Autumn street, to replace 4-inch Bigelow hydrant removed from opposite Autumn street.

Brastow avenue, 6-inch Mathews hydrant set 202 feet east from Porter street, to replace 4-inch B. M. hydrant removed from 200 feet east from Porter street.

Central street, 6-inch Holyoke hydrant set 8 feet north from Albion street, to replace Holyoke hydrant in same location broken by team.

Cross street, 6-inch Chapman hydrant set 6 feet north from Pearl street, to replace 4-inch Bigelow hydrant removed from same location.

Gilman street, 6-inch Chapman hydrant set 100 feet east from Walnut street, to replace 6-inch B. M. hydrant removed from 236 feet east from Walnut street.

Hall avenue, 6-inch Mathews hydrant set 310 feet east from Elm street, to replace 4-inch B. M. hydrant removed from same location.

Highland avenue, 6-inch Chapman hydrant set 64 feet east from Elm street, to replace 6-inch Holyoke hydrant removed from same location.

Highland avenue, 6-inch Mathews hydrant set 41 feet east from Putnam street, to replace 8-inch Chapman hydrant removed from same location on account of defective valve.

Highland avenue, 6-inch Chapman hydrant set 47 feet west from Prescott street, to replace 6-inch Holyoke hydrant removed from same location on account of defective valve.

Hammond street, 6-inch Holyoke hydrant set 30 feet west from Dickinson street, to replace 4-inch B. M. hydrant removed from same location on account of defective valve.

Richdale avenue, 6-inch Holyoke hydrant set opposite Thurston street, to replace 4-inch Coffin hydrant in same location, broken by team.

Sargent avenue, 6-inch Holyoke hydrant set 442 feet south from Broadway, to replace 4-inch B. M. hydrant removed from 480 feet south from Broadway.

Somerville avenue, 6-inch Holyoke hydrant set 12 feet east from Mystic street, to replace 6-inch Holyoke hydrant in same location, broken by team.

Sydney street, 6-inch Mathews hydrant set 412 feet east from Temple street, to replace Holyoke hydrant removed from same location on account of defective rod.

Tufts street, 6-inch Mathews hydrant set 39 feet west from Glen street, to replace 4-inch B. M. hydrant removed from same location.

Wigglesworth street, 4-inch B. M. hydrant removed from opposite Otis street.

All hydrants have been carefully inspected and general repairs made at shop. Two hydrants have been returned to factory for repairs. All have been painted and are now in good condition. Expense of maintenance and repairs of hydrants for labor and materials used in repairs, labor and materials in replacing hydrants, teaming, painting, etc., has been... \$1,038.26
Value of old hydrants removed..... 150.00

Net cost..... \$888.26

Four hydrants on the grounds formerly occupied by the McLean Asylum, having been abandoned, were purchased and removed by this department.

TABLE F.
RECAPITULATION.

Number of public hydrants set in 1896	93	
“ “ private “ “ “ “	0	
	—	
Total number of hydrants set in 1896		93
Number of hydrants removed in 1896		21
Net increase in number of public hydrants, 1896 . .	72	
“ “ “ “ “ private “ “	0	
	—	
Total net increase in number of hydrants “ . .		72
Total number of public hydrants in the city . . .	732	
“ “ “ private “ “ “ “	32	
	—	
Total number of all hydrants in the city January 1, 1896		764
One hundred and six of these are on the high service.		

TABLE G.
LOCATION OF HYDRANTS DECEMBER 31, 1896.

Adams street, corner of Broadway.	Auburn avenue, 239 feet west of Cross street.
Adams street, 240 feet south of Broadway.	Auburn avenue, 519 feet west of Cross street.
Adams street, 300 feet north of Medford street.	Austin street, 82 feet south of Mystic avenue.
Adams street, 10 feet north of Medford street.	Austin street, 66 feet north of Benedict street.
Adrian street, 106 feet east of Marion street.	Austin street, corner Broadway.
Adrian street, 220 feet south of Joseph street.	Avon street, 233 feet east of Central street.
Allen street, 9 feet north of Charlestown street.	Avon street, 585 feet west of School street.
Albion street, 78 feet west of Central street.	
Albion street, 312 feet west of Central street.	Banks street, 310 feet south of Summer street.
Albion street, 234 feet east of Lowell street.	Bartlett street, 230 feet south of Broadway.
Albion street, 421 feet east of Cedar street.	Bartlett street, 15 feet south of Ames street.
Aldersey street, 200 feet west of Walnut street.	Bartlett street, 10 feet south of Robinson street.
Alpine street, 280 feet east of Cedar street.	Beacon street, 300 feet east of west end of street.
Alpine street, 670 feet east of Cedar street.	Beacon street, 84 feet east of Harris street.
Alpine street, 299 feet west of Lowell street.	Beacon street, 46 feet west of Sacramento street.
Allston street, 12 feet west of Shawmut place.	Beacon street, 15 feet west of Kent street.
Ames street, 133 feet west of Central street.	Beacon street, corner of Ivaloo street.
Appleton street, corner of Clifton street.	Beacon street, 72 feet east of Park street.
Appleton street, 39 feet west of Willow avenue.	Beacon street, 22 feet east of Durham street.
Arthur street, 29 feet south of Broadway.	Beacon street, 35 feet east of Washington street.

TABLE G.
LOCATION OF HYDRANTS, DECEMBER 31, 1896 — *Continued.*

Beacon street, 219 feet west of Cooney street.	Bonair street, opposite Melvin street.
Beacon street, opposite Cooney street.	Bonair street, 117 feet east of Walnut street.
Beacon street, 222 feet west of Buckingham st.	Bonner avenue, opposite Homer square.
Beacon street, corner Concord avenue.	Boston street, 90 feet west of Bigelow street.
Beech street, 4 feet south of Atherton street.	Boston street, 213 feet east of Bigelow street.
Beech street, 31 feet east of Spring street.	Boston street, 4 feet north of High street.
Belmont street, 554 feet south of Highland ave.	Bow street, 125 feet west of Union square.
Belmont street, 228 feet north of Pitman street.	Bow street, junction of Summer street.
Belmont street, 255 feet north of Summer street.	Bow street, opposite Bow street place.
Benedict street, 34 feet east of Mystic street.	Bowdoin street, 68 feet north of Fremont avenue.
Berkeley street, 8 feet east of Central street.	Bradley street, 26 feet south of Veazie street.
Berkeley street, 213 feet east of Hersey street.	Brastow avenue, 202 feet east of Porter street.
Berkeley street, 28 feet west of School street.	Brastow avenue, 115 feet west from Lowell st.
Berkeley street, 212 feet west of Hersey street.	Broadway, 50 feet east of Mount Pleasant street.
Billingham street, 129 feet north of William st.	Broadway, 28 feet west of George street.
Bolton street, 203 feet north of Houghton street.	Broadway, 21 feet west of Broadway place.
Bonair street, 26 feet west of Cross street.	Broadway, corner of Glen street.
Bonair street, 95 feet east of Autumn street.	Broadway, corner Rush street.
Bonair street, 121 feet east of Arthur street.	Broadway, 15 feet west of Cross street.
Bonair street, 67 feet east of Dana street.	Broadway, corner Autumn street.

TABLE G.
LOCATION OF HYDRANTS, DECEMBER 31, 1896 — *Continued.*

Broadway, Corner Montgomery avenue.	Broadway, 175 feet east of North street.
Broadway, 33 feet west of Walnut street.	Broadway, 415 feet west of North street.
Broadway, corner Sargent avenue.	Broadway, east corner Mt. Vernon street.
Broadway, corner Melvin street.	Broadway, west corner Franklin street.
Broadway, 174 feet west of Grant street.	Broadway Park, near the pond.
Broadway, 117 feet east of Marshall street.	Brook street, 18 feet west of Rush street.
Broadway, opposite Marshall street.	Browning road, 302 feet west of Sycamore street.
Broadway, corner School street.	Buckingham street, west corner of Dimick st.
Broadway, opposite School street.	Burnside avenue, 259 feet north of Elm street.
Broadway, corner Thurston street.	Burnside avenue, 120 feet south of Summer st.
Broadway, 240 feet east of Central street.	Bennett street, 150 feet east of Prospect street.
Broadway, 13 feet west of Norwood avenue.	Cameron avenue, opposite Mead street.
Broadway, 324 feet west of Hinckley street.	Cameron avenue, 438 feet south of Mead street.
Broadway, 424 feet west of Hinckley street.	Campbell park, 255 feet west of Meacham street.
Broadway, opposite Cedar street.	Cedar street, 289 feet north of Elm street.
Broadway, 180 feet west of Wilson avenue.	Cedar street, 90 feet north of Sartwell avenue.
Broadway, 172 feet west of Elm street.	Cedar street, 50 feet north of Hall street.
Broadway, corner Billingham street.	Cedar street, 14 feet north of Highland avenue.
Broadway, 40 feet west of Packard avenue.	Cedar street, 14 feet north of Albion street.
Broadway, 180 feet east of Endicott avenue.	

TABLE G.
LOCATION OF HYDRANTS, DECEMBER 31, 1896—*Continued.*

Cedar street, 124 feet south of Warwick street.	Chestnut street, 538 feet south of Poplar street.
Cedar street, 50 feet north of Clyde street.	Chestnut street, 246 feet south of Poplar street.
Cedar street, 24 feet south of Murdock street.	Church street, 9 feet south of Summer street.
Cedar street, 270 feet south of Broadway.	Church street, 327 feet south of Summer street.
Central street, 75 feet south of Broadway.	Church street, 29 feet north of Somerville ave.
Central street, 6 feet north of Forster street.	Church street, 16 feet south of Somerville ave.
Central street, 9 feet north of Vernon street.	City stables, east end of yard.
Central street, 200 feet south of Vernon street.	Claremont street, 252 feet south of Holland street.
Central street, 8 feet north of Albion street.	Clarendon ave., at Cambridge city ledge (so. side).
Central street, corner Summer street.	Clark street, 200 feet west of Newton street.
Chandler street, 16 feet south of Broadway.	Clyde street, 254 feet east from Cedar street.
Chandler street, 216 feet north of Park avenue.	Clyde street, south corner of Murdock street.
Charles street, 183 feet south of Washington st.	Columbia street, 3 feet south of Beach avenue.
Charnwood road, 100 feet east of Gordonia road.	Columbia street, 8 feet south of Columbia court
Chauncey avenue, 9 feet north of Jaques street.	College avenue, 700 feet north of Broadway.
Cherry street, 7 feet south of Sartwell avenue.	Columbus avenue, 150 feet east of Bonner ave.
Cherry street, 254 feet north of Sartwell avenue.	Columbus avenue, 123 feet west of Bonner ave.
Cherry street, 250 feet north of Summer street.	Columbus avenue, 35 feet west of Stone avenue.
Cherry street, 26 feet south of Highland avenue.	Columbus avenue, 8 feet east of Walnut street.
Chester street, 15 feet north of Chester place.	Concord avenue, 90 feet east of Concord square.

TABLE G.

LOCATION OF HYDRANTS, DECEMBER 31, 1896 — *Continued.*

Concord avenue, opposite Knapp schoolhouse.	Curtis street, opposite Raymond avenue.
Concord avenue, 30 feet east of Springfield st.	Curtis street, 100 feet north of Fairmount ave.
Concord avenue, 20 feet east of Wyatt street.	Cutter square, north side.
Cornwell avenue, 465 feet west of Curtis street.	Cutter st., 290 feet south of Broadway (so. line).
Cook street, 74 feet north of Wyatt street.	
Cottage avenue, 150 feet east of Russell street.	Dane street, 9 feet north of Tyler street.
Craigie street, 216 feet south of Summer street.	Dane street, 112 feet south of Skehan street.
Craigie street, 555 feet south of Summer street.	Dane street, 55 feet north of Skehan street.
Craigie street, 126 feet north of Somerville ave.	Dane court, 510 feet east of Dane street.
Crescent street, opposite Hadley street.	Dartmouth st., 312 feet south of Broadway.
Crocker street, corner Highland avenue.	Dartmouth st., 57 feet south of Evergreen ave.
Crocker street, corner Crown street.	Dartmouth street, 180 feet north of Medford st.
Cross street, corner Otis street.	Day street, 3 feet south of Davis square.
Cross street, 6 feet north of Pearl street.	Day street, 100 feet south of Herbert street.
Cross street, 32 feet north of Cross street place.	Day street, corner Orchard street.
Cross street, 62 feet north of Flint street.	Dell street, 275 feet west of Glen street.
Cross street, 16 feet north of Gilman street.	Delaware street, 270 feet east of Aldrich street.
Cross street, 13 feet south of Auburn avenue.	Derby street, 399 feet east of Beacon street.
Cross street, opposite Chester avenue.	Dickinson street, 12 feet east of Beacon street.
Curtis street, 146 feet north of Professors' row.	Dover street, 205 feet south of Davis square.

TABLE G.
LOCATION OF HYDRANTS, DECEMBER 31, 1896 — *Continued.*

Dover street, 129 feet south of Glover circle.	Elm street, 86 feet west of Chester street.
Dover street, 3 feet north of Orchard street.	Elm street, 10 feet north of Winter street.
Durham street, 54 feet south of Hanson street.	Elm street, 6 feet south of Morrison street.
Edmunds street, 15 feet south of Broadway.	Elm street, 69 feet south of William street.
Ellsworth street, corner Rush street.	Elm street, opposite Kenwood street.
Elm street, 56 feet west of Craigie street.	Elm street, corner Broadway.
Elm street, west corner Porter street.	Elmwood street, 450 feet south of Holland st.
Elm street, 28 feet east of Linden avenue.	Eliot street, corner Park street.
Elm street, 11 feet east of Mossland street.	Endicott avenue, 430 feet south of Broadway.
Elm street, 9 feet west of Cedar street.	Evergreen avenue, 8 feet east of School street.
Elm street, 153 feet east of Cherry street.	Everett avenue, corner Cross street.
Elm street, 110 feet west of Cherry street.	Everett avenue, 200 feet east of Dana street.
Elm street, 14 feet east of Burnside avenue.	Everett avenue, 449 feet west of Cross street.
Elm street, 101 feet east of Willow avenue.	Everett street, opposite Emerson street.
Elm street, east corner St. James avenue.	Fairmount avenue, 590 feet west of Curtis street.
Elm street, west corner Elston street.	Farragut avenue, 258 feet south of Broadway.
Elm street, opposite Tenney street.	Farragut avenue, 550 feet south of Broadway.
Elm street, 25 feet west of Russell street.	Fenwick street, 40 feet north of Broadway.
Elm street, 18 feet west of Grove street.	Fiske avenue, 126 feet east of Hinckley street.,

TABLE G.

LOCATION OF HYDRANTS, DECEMBER 31, 1896 — *Continued.*

Fitchburg street, 400 feet east of Linwood street.	Fremont street, 22 feet north of E. Albion street.
Flint street, 18 feet east of Flint avenue.	Frost avenue, opposite American Tube Works.
Flint street, 59 feet east of Cross street.	Fountain avenue, 280 feet west of Glen street.
Flint street, 30 feet west of Franklin street.	
Florence street, 222 feet south of Perkins street.	Garden court, 475 feet south of Somerville ave.
Florence street, corner Pearl street.	Garfield avenue, 22 feet south of Mystic avenue.
Florence street, 486 feet north of Washington st.	Gibbens street, 206 feet west of Central street.
Forster street, opposite Tennyson street.	Gibbens street, 129 feet west of Benton avenue.
Fosket street, corner State avenue.	Gilman square, southeast side.
Francesca avenue, 305 feet east of Elm street.	Gilman street, 100 feet east of Walnut street.
Francesca avenue, 7 feet west of Liberty ave.	Gilman street, 261 feet west of Aldrich street.
Franklin street, 14 feet north of Arlington street.	Gilman street, 8 feet west of Aldrich street.
Franklin street, 80 feet south of Webster street.	Gilman street, 180 feet east of Aldrich street.
Franklin street, 165 feet south of Pearl street.	Gilman street, 293 feet west of Cross street.
Franklin street, 87 feet south of Oliver street.	Glen street, 147 feet south of Broadway.
Franklin street, 96 feet south of Palmer avenue.	Glen street, 9 feet north of Brook street.
Franklin street, 29 feet north of Washington st.	Glen street, 6 feet north of Webster street.
Fremont street, 86 feet north of Main street.	Glen street, corner Flint street.
Fremont street, 350 feet north of Main street.	Glen street, corner Fountain avenue.
Fremont street, 285 feet north of Meacham st.	Glen street, 307 feet south of Holland street.

TABLE G.

LOCATION OF HYDRANTS, DECEMBER 31, 1896 — *Continued.*

Gorham street, corner Howard street.	Hawthorne street, 340 feet west of Willow ave.
Grand View avenue, 288 feet east of Vinal ave.	Heath street, corner Temple street.
Grant street, corner Derby street.	Heath street, 51 feet west of Temple street.
Greene street, 200 feet south of Summer street.	Heath street, 320 feet west of West street.
Greenville street, 148 feet north of Boston street.	Heath street, corner Bond street.
Greenville street, 33 feet north of High street.	Heath street, corner Fenwick street.
	Heath street, corner Moreland street.
Hall avenue, 310 feet east of Elm street.	Henderson street, 159 feet north of Wilton ave.
Hall avenue, 306 feet west from Liberty avenue.	Herbert street, 192 feet east of Day street.
Hall avenue, 9 feet west of Liberty avenue.	High street, 300 feet west of Boston street.
Hamlet street, 321 feet south of Highland ave.	Highland avenue, corner Medford street.
Hammond street, 30 feet west of Dickinson st.	Highland avenue, corner Walnut street.
Hancock street, 258 feet south of Summer st.	Highland avenue, 260 feet west of Walnut street.
Hanson street, 40 feet north of Skehan street.	Highland avenue, 41 feet east of Putnam avenue.
Harvard street, 13 feet north of Beech street.	Highland avenue, 47 feet west of Prescott street.
Harvard street, 23 feet north of Harvard place.	Highland avenue, 114 feet west of School street.
Harrison street, 100 feet east of Kent street.	Highland avenue, 410 feet west of School street.
Harrison street (Ward 4), corner Elmwood st.	Highland avenue, 115 feet west of Trull lane.
Hawkins street, 50 feet east of Lake street.	Highland avenue, 171 feet east of Central street.
Hawthorne street, 139 feet east of Cutter ave.	Highland avenue, 32 feet west of Spring Hill ter.

TABLE G.
LOCATION OF HYDRANTS, DECEMBER 31, 1896 — *Continued.*

Highland avenue, 28 feet west of Belmont street.	Hudson street, 384 feet west of Lowell street.
Highland avenue, 180 feet west of Lowell st.	Hudson street, 8 feet east of Porter street.
Highland avenue, corner Porter street.	
Highland avenue, corner Eastman place.	Ibbetson street, 250 feet north of Somerville ave.
Highland avenue, 36 feet east of Fanning ave.	Ibbetson street, 521 feet north of Somerville ave.
Highland avenue, corner Willow avenue.	Irving street, 6 feet south of Broadway.
Highland avenue, 6 feet west of Grove street.	Irving street, 300 feet south of Broadway.
Highland avenue, 218 feet west of Grove street.	Irving street, 537 feet north of Holland street.
Highland avenue, 64 feet east of Elm street.	Irving street, 183 feet north of Holland street.
Holland street, 42 feet west of Dover street.	
Holland street, 36 feet east of Winter street.	James street, 100 feet north of Pearl street.
Holland street, 105 feet west of Irving street.	Jaques street, 9 feet north of Grant street.
Holland street, 77 feet east of Elmwood street.	Jaques street, 362 feet east of Temple street.
Holland street, 117 feet west of Cameron ave.	Jaques street, 190 feet west of Temple street.
Holland street, 80 feet east of Newbury street.	Jaques street, 300 feet east of Bond street.
Homer square, west side of square.	Jay street, 90 feet north of Howard street.
Houghton street, 200 feet east of Springfield st.	Jenny Lind avenue, corner Vernon street.
Hudson street, 9 feet east of Waldo street.	Jenny Lind avenue, 220 feet south of Broadway.
Hudson street, opposite Benton avenue.	Jenny Lind avenue, 16 feet north of Vernon st.
Hudson street, 292 feet east of Lowell street.	Jenny Lind avenue, 467 feet north of Vernon st.

TABLE G.
LOCATION OF HYDRANTS, DECEMBER 31, 1896 — *Continued.*

Joy street, 36 feet south of Washington street.	Linden avenue, 243 feet north of Elm street.
Joy street, 440 feet south of Washington st.	Linden avenue, 550 feet north of Elm street.
Joy street, 285 feet north of Poplar street.	Linden avenue, 30 feet north of Olive avenue.
Kensington avenue, corner Broadway.	Line street, 500 feet west of Cooney street.
Kent court, 285 feet west of Kent street.	Linwood street, 416 feet south of Washington st.
Kingman court, 300 feet south of Washington st.	Linwood street, 225 feet north of Poplar street.
Kingston street, 402 feet west of Meacham st.	Linwood street, 55 feet south of London street.
Knowlton street, opposite Morton street.	Linwood street, corner Linwood place.
Lake street, 205 feet west of Hawkins street.	London street, 400 feet east of Linwood street.
Lake street, corner Carleton street.	Loring street, 273 feet north of Somerville ave.
Laurel street, 300 feet south of Summer street.	Lowell street, corner Fiske avenue.
Laurel place, 8 feet north of Park place.	Lowell street, 195 feet south of Richardson st.
Lawrence street, 9 feet south of Richardson st.	Lowell street, opposite Vernon street.
Lexington avenue, corner Fanning avenue.	Lowell street, 3 feet south of Princeton street.
Lincoln street, opposite Arlington street.	Lowell street, 665 feet south of Summer street.
Lincoln avenue, 224 feet west of Mt. Vernon st.	Madison street, 480 feet west of School street.
Linden street, 33 feet north of Charlestown st.	Main street, 116 feet west of Mt. Vernon avenue.
Linden street, 557 feet north of Somerville ave.	Main street, corner Moreland street.
	Mansfield st., 200 feet north of Somerville ave.

TABLE G.
LOCATION OF HYDRANTS, DECEMBER 31, 1896 — *Continued*

Mansfield st., 200 feet south of Washington st.	Medford street, corner School street.
Maple street, 220 feet east of Medford street.	Medford street, junction Pearl street.
Maple street, 9 feet north of Poplar street.	Medford street, 8 feet east of Greenville street.
Marshall street, 94 feet north of Gilman square.	Medford street, 13 feet west of Prospect Hill ave
Marshall street, 30 feet north of Stickney ave.	Medford street, 34 feet south of Central square.
Marshall street, opposite Howe street.	Medford street, opposite Chester avenue.
Marshall street, corner Evergreen avenue.	Medford street, 236 feet south of Washington st.
Marshall street, 104 feet south of Mortimer pl.	Medford street, 78 feet north of Maple street.
Marshall street, 200 feet south of Broadway.	Medford street, 21 feet north of Somerville ave.
Malloy court, 16 feet south of Somerville ave.	Medford street, 98 feet north of Fitchburg R. R.
Meacham street, corner of Orchard street.	Medford street, 70 feet south of Fitchburg R. R.
Meacham street, 50 feet south of Glover circle.	Medford street, 30 feet north of Ward street.
Meacham street, at Lowell Railroad fence line.	Medford street, 91 feet south of Ward street.
Meacham street, 13 feet west of Moreland street.	Medford street, 93 feet north of Warren street.
Mead street, 48 feet east from Claremon street.	Medford street, 17 feet south of Warren street.
Medford street, junction Broadway.	Medford st., 80 ft. southeast of Grand Junc. R. R
Medford street, 14 feet west of Jenny Lind ave.	Merriam street, 42 feet north of Charlestown st.
Medford street, 16 feet from cor. Central street.	Melrose street, 600 feet north of Mystic avenue.
Medford street, 16 feet east of Sycamore street.	Miner street, 142 feet north of Vernon street.
Medford street, 46 feet east of Thurston street.	Minnie avenue, 300 feet north of Meacham st.

TABLE G.
LOCATION OF HYDRANTS, DECEMBER 31, 1896 — *Continued.*

Mondamin court, junction Harrison street.	Myrtle street, 82 feet south of Pearl street.
Montrose street, 417 feet west of School street.	Mystic avenue, opposite Tenney court.
Moore street, 21 feet north of Mead street.	Mystic avenue, corner Union street.
Moore street, 22 feet south of Holland street.	Mystic avenue, 200 feet north of No. Union st.
Moore street, 332 feet south of Holland street.	Mystic avenue, near Medford line.
Moreland street, 345 feet north of Meacham st.	Mystic street, 160 feet south of Washington st.
Moreland street, corner E. Albion street.	
Morrison street, 13 feet west of Newburn street.	Nashua street, 215 feet south of Wilton street.
Morrison street, 195 feet west of Clifton street.	Newbury street, 570 feet south of Holland street.
Morrison street, 33 feet west of Grove street.	Newbury street, 965 feet south of Holland street.
Mossland street, 112 feet north of Somerville ave.	Norfolk street, corner of Webster avenue.
Munroe street, 206 feet east of Walnut street.	North street, 440 feet north of Raymond avenue.
Murdock street, 200 feet east of Cedar street.	North st., 190 feet north of City Bound No. 19.
Murdock street, 263 feet north of Clyde street.	North Union street, 300 feet north of Mystic ave.
Mt. Vernon avenue, 200 feet north of Heath st.	
Mt. Vernon street, 9 feet north of Pearl street.	Oak street, 8 feet west of Prospect street.
Mt. Vernon street, 7 feet south of Perkins street.	Oak street, 390 feet west of Prospect street.
Mt. Vernon street, corner Broadway.	Oak street, 315 feet north of Houghton street.
Mt. Pleasant street, 276 feet south of Broadway.	Oakland avenue, 230 feet west of Marshall st.
Myrtle street, 418 feet north of Washington st.	Oliver street, 183 feet east of Cross street.

TABLE G.
LOCATION OF HYDRANTS, DECEMBER 31, 1896 — *Continued.*

Oliver street, 15 feet east of Glen street.	Paulina street, 184 feet north of Holland street.
Oliver street, 7 feet west of Franklin street.	Paulina street, 288 feet south of Broadway.
Orchard street, 9 feet west of Russell street.	Paulina street, 5 feet south of Broadway.
Orchard street, corner Mason avenue.	Pearl street, corner Pinckney street.
Orchard street, 9 feet east of Chester street.	Pearl street, 69 feet west of Hillside avenue.
Otis street, 440 feet west of Cross street.	Pearl street, 18 feet east of Delaware street.
Otis street, 9 feet east of Dana street.	Pearl street, 9 feet west of Glen street.
Otis street, 6 feet east of Wigglesworth street.	Pearl street, 30 feet west of Dana street.
Oxford street, 358 feet west of School street.	Pearl street, corner Wigglesworth street.
Oxford street, 100 feet west of Hersey street.	Pearl street, corner Walnut street.
Park avenue, 90 feet west of Elm street.	Pearl street, 120 feet east of Marshall street.
Park avenue, 10 feet west of Chandler street.	Perkins street, opposite Myrtle street.
Park street, 69 feet north of Fitchburg R. R.	Perkins street, opposite Lincoln street.
Park street, 155 feet north of Beacon street.	Perkins street, 24 feet east of Pinckney street.
Partridge avenue, corner Broadway.	Perkins street, 63 feet east of Perkins place.
Partridge avenue, 26 feet north of Medford st.	Perkins street, 21 feet east of Mt. Pleasant st.
Partridge avenue, 126 feet south of Medford st.	Pinckney street, 11 feet north of Washington st.
Partridge avenue, 450 feet south of Medford st.	Pinckney street, 345 feet south of Pearl street.
Partridge avenue, 290 feet north of Vernon stree	Pinckney street, opposite Wheeler street.
	Pinckney street, 71 feet south of Pearl street.

TABLE G.
LOCATION OF HYDRANTS, DECEMBER 31, 1896 — *Continued.*

Pleasant avenue, 290 feet east of Vinal avenue.	Prospect street, 286 feet north of Houghton st.
Prescott street, 326 feet south of Highland ave.	Putnam street, 116 feet south of Highland ave.
Prescott street, 582 feet south of Highland ave.	Putnam street, 425 feet south of Highland ave.
Prescott street, 257 feet north of Summer street.	Putnam street, 608 feet north of Summer street.
Preston street, 375 feet west of School street.	Putnam street, 308 feet north of Summer street.
Poplar street, 21 feet west of Joy street.	Quincy street, 315 feet south of Summer street.
Porter street, corner Mountain avenue.	Quincy street, corner Somerville avenue.
Porter street, 282 feet south of Summer street.	Richardson street, 12 feet west of Henderson st.
Porter street, 24 feet north of Williams court.	Richdale avenue, opposite Thurston street.
Porter street, 8 feet north of Parker place.	Robinson street, 333 feet west of Central street.
Professors' row, 277 feet east of College avenue.	Rogers' avenue, 300 feet north of Morrison ave.
Professors' row, 140 feet west of College avenue.	Rossmore st., 260 feet south of Washington st.
Professors' row, 300 feet west of College avenue.	Rush street, 81 feet south of Pearl street.
Professors' row, 580 feet west of College ave.	Rush street, 11 feet north of Pearl street.
Professors' row, 188 feet east of Packard avenue.	Rush street, 128 feet north of Brook street.
Professors' row, 305 feet west of Packard ave.	Sacramento street, 5 feet south of Miller street.
Prospect Hill avenue, 9 feet north of High st.	Sanborn avenue, 60 feet east of Walnut street.
Prospect street, 135 feet north of Bennet street.	Sargent avenue, 442 feet south of Broadway.
Prospect street, corner Webster avenue.	
Prospect street, 210 feet south of Oak street.	

TABLE G.
LOCATION OF HYDRANTS, DECEMBER 31, 1896 — *Continued.*

Sargent avenue, 361 feet west of Walnut street.	Somerville avenue, opposite Spring street.
Sargent avenue, 95 feet west of Walnut street.	Somerville avenue, 195 feet west of Spring street.
School street, 108 feet south of Maple avenue.	Somerville avenue, 13 feet west of Beach street.
School street, 8 feet south of Montrose street.	Somerville avenue, 9 feet east of Central street.
School street, 128 feet north of Highland avenue.	Somerville avenue, 15 feet west of Laurel street.
School street, 88 feet north of Oxford street.	Somerville avenue, 100 feet west of Loring st.
School street, 88 feet north of Avon street.	Somerville avenue, 113 feet east of Dane street.
School street, 100 feet south of Summer street.	Somerville avenue, 185 feet west of Hawkins st.
School street, 93 feet south of Preston street.	Somerville avenue, 88 feet west of Quincy street.
School street, 61 feet north of Knapp street.	Somerville avenue, 105 feet east of Carleton st.
Sewall street, 324 feet west of Grant street.	Somerville avenue, 400 feet west of Prospect st.
Shawmut street, 9 feet north of Washington st.	Somerville avenue, 83 feet west of Prospect st.
Skehan street, 110 feet east of Hanson street.	Somerville avenue, 30 feet west of Linden street.
Somerville avenue, 181 feet west of Mossland st.	Somerville avenue, 12 feet east of Mystic street.
Somerville avenue, 195 feet east of Beacon st. br.	Somerville avenue, 121 feet east of Medford st.
Somerville avenue, 500 feet east of Beacon st. br.	Somerville avenue, 86 feet east of Poplar street.
Somerville avenue, 120 feet west of Elm street.	Somerville avenue, 490 feet west of Fitchburg R.
Somerville avenue, 112 feet west of Lowell st.	Somerville avenue, 100 feet west of Fitchburg R.
Somerville avenue, 77 feet from Belmont street.	Somerville avenue, south side of Fitchburg R.
Somerville avenue, 69 feet east of Spring street.	Somerville avenue, 260 feet west of Franklin ct.

TABLE G.
LOCATION OF HYDRANTS, DECEMBER 31, 1896 — *Continued.*

Somerville avenue, corner Franklin court.	Summer street, 6 feet east of Cedar street.
Somerville avenue, 100 feet west of Camb. line.	Summer street, 24 feet east of Linden avenue.
South street, 234 feet west of Medford street.	Summer street, opposite Craigie street.
South street, corner Emery street.	Summer street, 35 feet east of Porter street.
South street, corner Earle street.	Summer street, corner Lowell street.
South street, 25 feet west of Hunting street.	Summer street, east corner Belmont street.
South street, opposite Water street.	Summer street, corner Spring street.
Spring street, 10 feet south of Pitman street.	Summer street, 53 feet west of Harvard street.
Spring street, 184 feet north of Beech street.	Summer street, 215 feet east of Harvard street.
Springfield street, 140 feet south of Concord ave.	Summer street, 59 feet east of Central street.
Springfield street, 21 feet south of Dickinson st.	Summer street, 19 feet west of Laurel street.
Springfield street, 120 feet north of Camb. line.	Summer street, 54 feet east of Preston street.
Spring Hill terrace, 333 ft. south of Highland av.	Summer street, 200 feet west of School street.
Stone avenue, 118 feet north of Union square.	Summer street, 8 feet east of School street.
Stone avenue, 275 feet south of Columbus ave.	Summer street, opposite Putnam st. (east line).
Summer street, 160 feet east of Cutter avenue.	Summer street, 6 ft. west of Vinal ave. (w. line).
Summer street, opposite Elston street.	Summit avenue, 120 feet west of Walnut street.
Summer street, west corner Gordon road.	Sunnyside ave., 105 feet west of Wigglesworth st.
Summer street, opposite Banks street.	Sycamore street, 18 feet south of Broadway.
Summer street, 6 feet east of Cherry street.	Sycamore street, 360 feet south of Broadway.

TABLE G.
LOCATION OF HYDRANTS, DECEMBER 31, 1896—*Continued.*

Sycamore street, corner Forster street.	Tufts street, 54 feet south of Cross street.
Sycamore street, 213 feet north of Medford st.	Thorndike street, 10 feet south of B. & L. R. R.
Sycamore street, 174 feet south of Medford st.	Thorpe place, 280 feet south of Highland avenue.
Stickney avenue, 212 feet west of Marshall st.	Tyler street, 50 feet east of Vine street.
Sydney street, 412 feet east of Temple street.	
	Union square, corner Washington street.
Talbot avenue, corner Packard avenue.	Union square, west side of square.
Temple street, 53 feet north of Jaques street.	Union street, corner Broadway.
Tenney court, 318 feet north of Mystic avenue.	Union street, opposite Benedict street.
Thurston street, 6 feet north of Evergreen ave.	
Tower street, 16 feet north of Crown street.	Veazie street, opposite James street.
Tremont street, corner Webster avenue.	Vernon street, 75 feet west of Partridge avenue.
Trull street, 3 feet south of Medford street.	Vernon street, corner Bartlett street.
Trull street, 279 feet south of Medford street.	Vernon street, corner Miner street.
Trull street, 522 feet north of Vernon street.	Vinal avenue, 129 feet north of Aldersey street.
Trull street, 264 feet north of Vernon street.	Vinal avenue, 219 feet north of Summer street.
Tufts street, 75 feet north of Washington street.	Vinal avenue, corner Highland avenue.
Tufts street, 150 feet south of Glen street.	Vine street, 180 feet north of Beacon street.
Tufts street, 39 feet north of Glen street.	Virginia street, 45 feet west of Aldrich street.
Tufts street, 56 feet south of Dell street.	Wallace street, 40 feet south of Broadway.

TABLE G.
LOCATION OF HYDRANTS, DECEMBER 31, 1896 — *Continued.*

Wallace street, 480 feet south of Broadway.	Washington street, corner Myrtle street.
Wallace street, 694 feet south of Broadway.	Washington street, 15 feet west of Myrtle street.
Wallace street, 175 feet north of Park avenue.	Washington street, 20 feet east of Franklin ave.
Wallace street, 10 feet north of Holland street.	Washington street, 50 feet east of Shawmut st.
Walnut street, 38 feet south of Veazie street.	Washington street, 100 feet east of Rossmore st.
Walnut street, 92 feet south of Wellington ave.	Washington street, 84 feet east of Boston street.
Walnut street, 36 feet north of Pleasant avenue.	Washington street, 75 feet west of Mystic street.
Walnut street, 12 feet south of Boston street.	Washington street, cor. Clark place (west side).
Walter street, 28 feet west of Walnut street.	Washington street, opposite Union square.
Walter street, 50 feet west of Bradley street.	Washington street, 6 feet east of Kingman court.
Ward street, 84 feet west of Medford street.	Washington street, 240 feet east of Parker street.
Ward street, corner Emery street.	Washington street, 96 feet west of Parker street.
Ware street, 258 feet west of Curtis street.	Washington street, 9 feet east of Leland street.
Warren avenue, corner of Sanborn ave. (n. side.)	Washington street, 186 feet west of Dane street.
Warren avenue, 75 feet south of Columbus ave.	Washington street, 45 feet east of Beacon street.
Warren avenue, 175 feet north of Bow street.	Water street, 91 feet north of South street.
Warwick street, 420 feet east of Cedar street.	Water street, 254 feet north of South street.
Washington street, 69 feet west of Crescent st.	Water street, 354 feet north of South street.
Washington street, corner Mt. Vernon street.	Webster avenue, 96 feet south of Union square.
Washington street, corner Florence street.	Webster avenue, 12 feet south of Everett street.

TABLE G.

LOCATION OF HYDRANTS, DECEMBER 31, 1896 — *Concluded.*

Webster avenue, 25 feet north of Newton street.	Winslow avenue, 150 feet east of Elm street.
Webster avenue, 63 feet north of Prospect st.	Winslow avenue, 66 feet east of Villa avenue.
Webster avenue, 275 feet south of Prospect st.	Winslow avenue, corner Grove street.
Webster street, 9 feet east of Cross street.	Winter street, 130 feet east of Holland street.
Webster street, 9 feet east of Rush street.	Winter Hill circle, 200 feet north of Broadway.
Webster street, 12 feet west of Cutter street.	Woodbine street, 222 feet west of Centre street.
Wellington avenue, west of Montgomery ave.	Wyatt street, 42 feet west of Cook street.
West street, corner Broadway.	Wyatt street, 324 feet east of Washington street.
West street, ward 4, corner Highland avenue.	
West st., ward 4, 144 feet north of Highland ave.	
Westwood road, 90 feet west of Central street.	
Westwood road, 58 feet east of Benton avenue.	
Wheatland street, 135 feet north of Broadway.	
Wheatland street, 9 feet south of Jaques street.	
Wheatland street, 100 feet south of Mystic ave.	
Willow avenue, 12 feet north of Summer street.	
Willow avenue, 250 feet north of Highland ave.	
Willow avenue, 66 feet south of Morrison street.	
Wilton street, 6 feet east of Nashua street.	
Wilton street, 12 feet east of Lawrence street.	
	PRIVATE HYDRANTS.
	John P. Squire & Co. 7
	North Packing & Prov. Co. 11
	Middlesex Bleachery 3
	American Tube Works 2
	Union Glass Works 1
	Fitchburg R. R. 1
	New England Dressed Meat and Wool Co. 6
	Metropolitan Sewerage Pumping Station . 1

TABLE H.

GATES — CONSTRUCTION ACCOUNT.

New gates have been set in the following locations:

Albion Place, 1-inch, 3 feet out from west line, on north line of Albion street.

Alpine street, 6-inch, 9 feet 9 inches out from north fence line and 20 feet east from east line of house No. 20.

Alpine street, 6-inch, 13 feet out from north line, on west line of Lowell street.

Beach avenue, 6-inch, 8 feet 6 inches out from north line, on east line of Webster avenue.

Beach avenue, 6-inch, 7 feet 4 inches out from north line, on west line of Columbia street.

Beacon street, 2-inch, for water-post.

Bedford street, 6-inch, 10 feet out from east line, on south line of South street.

Benton avenue, 8-inch, 13 feet out from east line and 14 feet south from north line of Summer street.

Bolton street, 6-inch, 12 feet 6 inches out from east line, on south line of Oak street.

Bolton street, 6-inch, 14 feet out from east line and 3 feet 6 inches south from north line of Houghton street.

Brastow avenue, 4-inch, 14 feet 6 inches out, on east line of Porter street.

Broadway, 2-inch, for water-post.

Brook street, 6-inch, 13 feet out, on west line of Rush street.

Brooks street, 6-inch, 13 feet out from south line, on west line of Dover street.

Cleveland street, 6-inch, 13 feet out from south line, on west line of Central street.

College avenue, 12-inch, 41 feet 5 inches west from line of electric poles on east side and 10 feet north from line of trees on sidewalk.

Columbia court, 6-inch, 5 feet out from north line, on east line of Webster avenue.

Columbia court, 6-inch, 5 feet out from north line, on west line of Columbia street.

Columbia street, 10-inch, 13 feet out from west line, on south line of Glass House court.

Conlon court, 6-inch, 8 feet out from north line, on east line of Columbia street.

Cottage circle, 2-inch, 17 feet 6 inches out from east line of Cottage circle, on south line of Cottage avenue.

Cross street, 12-inch, 12 feet out, on south line of Pearl street.

Dana street, 6-inch, 13 feet out, on south line of Otis street.

East Albion street, 10-inch, 13 feet out from north line, four feet west from west line of Moreland street.

Earle street, 6-inch, 10 feet out from east line, on north line of South street.

Electric avenue, 6-inch, 13 feet out from north line, 7 feet west from west line of Packard avenue.

Flint street, 2-inch, for water-post.

Garfield avenue, 6-inch, 13 feet out from west line, on south line of Mystic avenue.

Garfield avenue, 6-inch, 13 feet out from west line, on line of the electric poles on north side of Mystic avenue.

Gilman street, 10-inch, 13 feet 5 inches out, on east line of Walnut street.

Glass House court, 16-inch, 12 feet 6 inches out from south line, on east line of Webster avenue.

Hall avenue, 10-inch, 13 feet out from north line, one foot west from west line of Liberty avenue.

Harding street, 6-inch, 11 feet out from east line, on south line of South street.

Highland avenue, 6-inch, for hydrant, 8 feet north from south line of Highland avenue, on west line of Spring Hill terrace.

Highland avenue, 2-inch, for water-post.

Houghton street, 10-inch, 10 feet 8 inches out from north line, on west line of Prospect street.

Houghton street, 12 feet 6 inches out from north line, on west line of Oak street.

Hunting street, 6-inch, 10 feet out from east line, on south line of South street.

Ibbetson street, 8-inch, 13 feet out from east line, on north line of Somerville avenue.

Jaques street, 2-inch, for water-post.

Lowell street, 10-inch, 13 feet out from west line, on north line of Albion street.

Medford street, 2-inch, for water-post.

Moreland street, 6-inch, 13 feet out from east line, 190 feet north from Albion street.

Moreland street, 6-inch, 11 feet out from east side, on south line of house No. 95.

Moreland street, 6-inch, 13 feet 10 inches out from east line of Moreland street, 10 feet 6 inches north from south line of of Heath street.

Museum street, 6-inch, 13 feet out from west line, on south line of Beacon street.

Mystic street, 6-inch, 13 feet out from west line, 2 feet north from north line of Somerville avenue.

Norfolk street, 6-inch, 11 feet 9 inches out from west line, on west line of Webster avenue.

Oak street, 6-inch, 14 feet 6 inches out from north line, on west line of Prospect street.

Oak street, 6-inch, 10 feet out, on north line of Houghton street, from west line.

Oak street, 6-inch, 10 feet out from west line, on south line of Houghton street.

Orchard street, 2-inch, for water-post.

Paulina street, 10-inch, 13 feet out from west line, on south line of Broadway.

Perkins street, 8-inch, 13 feet 6 inches out, on east line of Mt. Vernon street.

Pinckney street, 8-inch, 16 feet out, on north line of door of house No. 24.

Princeton street, 6-inch, 13 feet out from south line, on west line of Lowell street.

Princeton street, 6-inch, 13 feet out from south line, 122 feet east from east line of house No. 50.

Prospect street, 10-inch, 17 feet out from east line, on south line of Concord avenue.

Rush street, 8-inch, 14 feet out, on south line of Webster street.

Rush street, 8-inch, 13 feet 6 inches out, on north line of Flint street.

Sartwell avenue, 6-inch, 11 feet out from south line, on east line of Cherry street.

South street, 10-inch, 10 feet out from south line, on west line of Harding street.

South street, 3-inch, 10 feet out from south line, 3 feet west from west line of Water street.

Spring Hill terrace, 6-inch, 6 feet out, on south line of Highland avenue, from west line.

Spring Hill terrace, 6-inch, 6 feet out from north line, on east line of Belmont street.

Teele square, drinking fountain, 1-inch, four feet out from fountain, westerly.

Tufts street, 12-inch, 12 feet 4 inches out, on west line of Glen street.

Tremont street, 6-inch, 11 feet 8 inches out, from west line, on west line of Webster avenue.

Union street, 12-inch, 13 feet out, on south line of Mystic avenue.

Veazie street, 6-inch, 15 feet out, on west line of Walnut street.

Victoria street, 6-inch, 13 feet out from east line, on south line of Broadway.

Water street, 10-inch, 9 feet out from east line, on north line of South street.

Webster avenue, 10-inch, 13 feet 6 inches out from east line, on south line of Glass House court.

Westminster street, 6-inch, 13 feet out from east line, 2 feet south from south line of Electric avenue.

Willow place, 6-inch, 8 feet out from east line, on south line of South street.

Woodbine street, 6-inch, 11 feet out from south line, on east line of Lowell street.

TABLE I.

GATES—RENEWAL ACCOUNT.

The following changes have been made in the size and location of main gates:

Auburn avenue, 6-inch gate set 9 feet 3 inches out from north line on west line of Cross street, to replace 4-inch gate removed from 12 feet out from north line, on west line of Cross street.

Autumn street, 6-inch gate set 6 feet 6 inches out from east line and 1 foot south from north line of Bonair street, to replace 4-inch gate removed from 6 feet 6 inches out from east line, on north line of Bonair street.

Bonair street, 8-inch gate set 13 feet out from south line, on west line of Cross street, to replace 4-inch gate removed from same location.

Bonair street, 8-inch gate set 12 feet 5 inches out from south line, on east line of Dana street, to replace 4-inch gate removed from 14 feet out from south line, on east line of Dana street.

Brastow avenue, 6-inch gate set 14 feet out from north line, on west line of Lowell street, to replace 4-inch gate removed from 13 feet out from north line, on west line of Lowell street.

Brook street, 6-inch gate set 12 feet out from north line, on east line of Cross street, to replace 4-inch gate removed from same location.

Brook street, 6-inch gate set 13 feet out from north line, on west line of Glen street, to replace 4-inch gate removed from same location.

Cross street, 12-inch gate set 13 feet out from west line and one foot south from south line of Broadway, to replace 6-inch gate removed from 13 feet out from west line, on south line of Broadway.

Cross street, 12-inch gate set 12 feet 6 inches out from west line and on south line of Brook street, to replace 6-inch gate removed from 15 feet out from west line and on south line of Everett avenue.

Cross street, 12-inch gate set 12 feet out from west line on north line of Pearl street, to replace 6-inch gate removed from 19 feet out from west line and 27 feet north from north line of Pearl street.

Cross street, 12-inch gate set 12 feet 6 inches out on north line of Gilman street, to replace 6-inch gate removed from 15 feet out from west line on north line of Gilman street.

Cross street place, 6-inch gate set 9 feet 6 inches out from house on north side and on west line of Cross street.

Dana street, 6-inch gate set 12 feet 5 inches out from east line, on south line of Bonair street, to replace 6-inch gate removed from same location.

Flint street, 8-inch gate set 13 feet out from south line on west line of Glen street, to replace 6-inch gate removed from same location.

Flint street, 8-inch gate set 13 feet out from west line on west line of Glen street, to replace 6-inch gate removed from same location.

Flint street, 8-inch gate set 14 feet 6 inches out from south line, on west line of Franklin street, to replace 6-inch gate removed from 22 feet out from south line on west line of Franklin street.

Gilman street, 10-inch gate set 13 feet 5 inches out from north line on west line of Cross street, to replace 4-inch gate removed from 20 feet out from north line on west line of Cross street.

Gilman street, 10-inch gate set 13 feet 5 inches out from north line on west line of Aldrich street, to replace 6-inch gate removed from 14 feet out from north line on west line of Aldrich street.

Glen street, 6-inch gate set 14 feet 3 inches out from west north line on west line of Cross street, to replace 4-inch gate removed from 14 feet from west line on north line of Webster street.

Glen street, 6-inch gate set 13 feet out from east line on north line of Flint street, to replace 4-inch gate removed from same location.

Glen street, 6-inch gate set 12 feet 4 inches out from east line on south line of Pearl street, to replace 4-inch gate removed from 12 feet out from east line on south line of Pearl street.

Highland avenue, 10-inch gate set 20 feet out from north line on east line of Elm street, to replace 10-inch gate removed from 18 feet out on east line of Elm street.

Holland street, 12-inch gate set 21 feet out from north line and 16 feet 6 inches west from east line of house No. 13, to replace 10-inch gate removed from opposite Dover street..

James street, 6-inch gate set 13 feet 6 inches out from east line on south line of Veazie street, to replace 6-inch gate removed from same location.

Linwood place, 1 $\frac{1}{4}$ -inch gate set 6 feet north from south line of Linwood place and 6 feet east from west line of Linwood street, to replace 1-inch gate removed from same location.

Murdock street, 8-inch gate set 10 feet 6 inches out from east line on north line of Clyde street, to replace 4-inch gate removed from same location.

Mystic avenue, 10-inch gate set 24 feet out from south line and 4 feet 6 inches east from west line of Union street, to replace 6-inch gate removed from 22 feet out from south line on east line of Union street.

Oliver street, 8-inch gate set 14 feet out from north line on east line of Cross street, to replace 4-inch gate removed from same location.

Oliver street, 8-inch gate set 14 feet out from north line on west line of Glen street, to replace 4-inch gate removed from 15 feet out from north line on east line of Glen street.

Otis street, 8-inch gate set 13 feet out from north line on east line of Wigglesworth street, to replace 4-inch gate set 13 feet out from north line on west line of Dana street.

Perkins place, 4-inch gate set 10 feet out from west line and 17 feet 4 inches north from south line of Perkins street, to replace 2-inch gate removed from 10 feet out from west line and 15 feet north from south line of Perkins street.

Perkins street, 8-inch gate set 15 feet out from south line on east line of Florence street, to replace 6-inch gate removed from 13 feet out from south line on east line of Pinckney street.

Pinckney street, 8-inch gate set 14 feet out from west line on south line of Perkins street, to replace 6-inch gate removed from same location.

Pinckney street, 8-inch gate set 16 feet out from west line on north line of Pearl street, to replace 6-inch gate removed from same location.

Pinckney street, 8-inch gate set 14 feet out from west line on south line of Pearl street, to replace 6-inch gate removed from same location.

Rush street, 8-inch gate set 13 feet out from east line on north line of Webster street, to replace 4-inch gate removed from same location.

Rush street, 8-inch gate set 14 feet out from east line on north line of Pearl street, to replace 4-inch gate removed from same location.

Rush street, 8-inch gate set 13 feet out from west line on south line of Pearl street, to replace 4-inch gate removed from same location.

Sargent avenue, 6-inch gate set 15 feet out from south line and 45 feet west from east line of house No. 33, to replace 4-inch gate removed from same location.

Shawmut street, 8-inch gate set 13 feet out from west line and 5 feet north from north line of Washington street, to replace 4-inch gate removed from 13 feet out from west line on north line of Washington street.

Tufts street, 12-inch gate set 12 feet 10 inches out from west line and 45 feet east from Cross street, to replace 6-inch gate removed from 11 feet out and 45 feet east from Cross street.

Wigglesworth street, 6-inch gate set 12 feet 6 inches out from north line, on south line of Bonair street, to replace 6-inch gate removed from same location.

Williams court, 4-inch gate set 10 feet out from south line on west line of Porter street, to replace 3-inch gate removed from same location.

Wilson avenue, 4-inch gate set 4 feet 9 inches out from west line on south line of Broadway, to replace 2-inch gate removed from same location.

Webster street, 8-inch gate set 12 feet 6 inches out from south line on east line of Cross street, to replace 6-inch gate removed from same location.

Webster street, 6-inch gate removed from 12 feet 6 inches out from south line on west line of Glen street.

TABLE J.

GATES AND BOXES—MAINTENANCE AND REPAIRS.

Twenty-two new iron boxes were set in place of decayed wooden boxes, and, where necessary, gates have been repaired and packed, at an expenditure for labor, materials and teaming of . . . \$492.59

TABLE K.

RECAPITULATION.

GATES.	SIZE.										Total.
	1"	1 $\frac{1}{4}$ "	2"	3"	4"	6"	8"	10"	12"	16"	
Set. . .	2	1	8	1	4	54	24	16	10	1	121
Removed	1	.....	2	1	20	20	0	2	0	0	46

Net increase in number of gates in 1896 . . . 75

Total number of gates in the city December 31, 1896 . . 923

TABLE L.**WATER POSTS.**

Seven new water-posts, for the use of the street-watering department, were set in 1896, in the following locations:—

Beacon street, near Vine street.
Broadway, near Irving street.
Flint street, near Cross street.
Highland avenue, near Crocker street.
Jaques street, near Glines street.
Medford street, near Jenny Lind avenue.
Orchard street, near Day street.

The total number now in the city is 51. All are in good condition, having received the usual renewals of boxes, valves, hose and general repairs.

TABLE M.**LOCATIONS OF WATER POSTS.**

Albion street, near Lowell street.
Beacon street, opposite Cooney street.
Beacon street, near Vine street.
Beacon street, near Sacramento street.
Boston street, near Greenville street.
Broadway, near corner of Franklin.
Broadway, opposite Broadway park
Broadway, opposite City Farm
Broadway, near Irving street
Broadway, corner of Clarendon avenue.
Columbus avenue, near Stone avenue.
Concord avenue, corner of Marion street.
Elm street, near Burnside avenue.
Elm street, near Morrison street.
Elm street, opposite Kenwood street.
Flint street, near Cross street.
Highland avenue, corner of Medford street.

Highland avenue, corner of Central street.
Highland avenue, near Crocker street.
Highland avenue, near Willow avenue.
Holland street, near Elmwood street.
Jaques street, near Glines School.
Linwood street, near Poplar street.
Main street, near Broadway.
Medford street, corner of Lee street.
Medford street, near Jenny Lind avenue.
Montrose street, near School street.
Mystic avenue, corner of Union street.
Orchard street, near Day street.
Pearl street, corner of Walnut street.
Pearl street, near Delaware street.
Pearl street, near Myrtle street.
Putnam street, corner of Summer street.
School street, near Broadway.
Somerville avenue, near East Cambridge line.
Somerville avenue, near Poplar street.
Somerville avenue, corner of Mystic street.
Somerville avenue, near School street.
Somerville avenue, corner of Beacon street.
Spring street, near Somerville avenue.
Summer street, opposite Laurel street.
Summer street, near Belmont street.
Summer street, corner of Cedar street.
Summer street, corner of Elm street.
Tufts street, corner of Cross street.
Vinal avenue, near Highland avenue.
Washington street, corner of Myrtle street.
Washington street, corner of Boston street.
Washington street, near Union square.
Washington street, opposite Leland street.
Webster avenue, near glass house.

The following items of expense appear for the construction and maintenance of water-posts:—

Cost of setting seven new water-posts, complete:—

Materials	\$182.21	
Labor and teaming	125.46	
	<hr/>	\$307.67

Maintenance of posts and turning off and on water:—

Materials	\$44.52	
Labor and teaming	96.37	
	<hr/>	140.89

Total cost		<hr/> \$448.56
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TABLE N.

DRINKING FOUNTAINS.

A new drinking fountain was set in Teele square at a cost, for labor and materials, of \$42.68, the fountain being furnished by the department of Public Grounds. The expense for maintenance of the fountains, cleaning and repairs, was \$49.11.

All have received necessary cleaning and attention. The total number now in the city is eight, located as follows:—

LOCATION OF DRINKING FOUNTAINS.

Highland avenue, corner of Walnut street.

Gilman square, in centre.

Somerville avenue, junction with Washington street.

Union square, in front of Hill building.

Broadway, north side of Magoun square.

Davis square, in centre.

Davis square, in front of Medina building.

Teele square, junc. of Broadway and Holland street.

TABLE O.

MAINTENANCE OF STREET MAINS.

The following bursts and leaks on street mains are recorded for 1896:—

BURSTS.

	SIZE OF MAIN.	NUMBER.
	4"	7
	6"	11
Total . . .		18

LEAKS.

	SIZE OF MAIN.	NUMBER.
	4"	1
	6"	4
	10"	1
	12"	1
Total . . .		7

Expenditures in 1896 on account of defective street mains follow:—

Pipe and fittings used	\$ 80.85
Labor and teaming	378.44
Claims to damages to personal property settled by payment of	75.00
	<hr/>
	\$537.79

The larger part of the above recorded bursts occurred on streets which have since been laid with iron pipe and are now secure.

TABLE P.
WATER SERVICES.

SERVICE CONSTRUCTION.

Four hundred and fifty-three new service connections were made in 1896, as follows:

Owners' applications	380
Transferred from City of Cambridge mains in South street district	73
	<hr/> 453

The following table shows the sizes and lengths laid:

	SIZE.	NUMBER.	LENGTH.
	2"	2	435 feet
	1½"	2	176 "
	1¼"	6	197 "
	1"	9	212 "
	¾"	434	9,391 "
Total, . . .		453	10,411 feet.

Total number of service pipes laid to Jan. 1, 1897, 9,039.

Total length of service pipe used in making service connections, 57 miles 978 feet.

SERVICE MAINTENANCE.

The following items of expense appear in the maintenance and repairs of service pipes:

Leaks repaired on service pipes	117
Iron service boxes set, decayed wooden ones replaced, etc.	83
New service gates set on old connections	45
Services cleaned of fish, etc., by forcing from houses .	50
Services cleaned of sediment, etc., by digging up at corporation cock	36

Service boxes brought to grade by construction of new sidewalks	67
Services replaced at city's expense on account of defective pipe or fittings	15
Total expenditure for labor and fittings on service maintenance account	\$1,650.54

TABLE Q.

HIGH SERVICE.

COST OF OPERATION AND MAINTENANCE.

Engineer's salary	\$1,100.00
Firemen's wages	943.50
Fuel for boiler	1,177.44
Telephone rental and tolls	92.55
Electric Lighting	36.00
Furniture and tools	46.55
Oil, packing and waste	74.18
Repairs and fittings to pump and boilers	57.19
Painting pump	40.00
Repairs to buildings, etc.	144.90
Sewer assessment	91.99
Incidentals	48.00
Standpipe and grounds, maintenance, painting, caulking, etc.	588.21
	<hr/>
	\$4,440.51

Total number of gallons of water pumped in 1896, 227,-
280,000.

Cost of pumping per 1,000 gallons, based on the expense of operating the high-service system, \$0.01954.

TABLE R.

VALUATION OF PROPERTY UNDER CONTROL OF
THE WATER BOARD, DECEMBER 31, 1896.

76 miles, 593 feet of iron and cement distribution mains	}	\$600,000.00
923 gates and boxes set in connection therewith		
732 fire hydrants set in connection therewith		
51 water-posts set in connection therewith		
High-service standpipe and grounds		17,000.00
“ “ pumping station, buildings and grounds		17,300.00
High-service pumps and boilers		10,000.00
Fuel for high-service boiler		131.25
Pump and boiler sundries		16.50
Pumping station furniture and tools		764.50
Shop buildings and yard		6,900.00
Office furniture		471.00
Books, stationery, etc.		25.00
Tools		1,684.50
Horses		550.00
Wagons, sleighs, etc.		905.00
Harnesses, robes, etc.		260.00
Hay and grain		15.64
Stable utensils		34.25
Main pipe on hand		9,273.15
Special castings on hand		3,851.86
Gates and boxes on hand		535.50
Pig lead on hand		480.00
Packing on hand		36.00
Service pipe and fittings on hand		2,112.34
Patterns for special castings		1,000.00
		<hr/>
		\$673,346.49

The Board is also in control of 57 miles, 978 feet of service pipes, with 9,039 connections, the cost of which has been paid to the city by the owners of properties connected to the water mains.

Somerville, January 1, 1897.

To the Somerville Mystic Water Board:—

Gentlemen,—The work of this department during the past year has been largely in the direction of replacing the old cement-lined mains with iron pipe, nearly five miles having been thus renewed. The works have been extended by laying nearly four miles of iron pipe, about one half of which is in the district heretofore supplied by the city of Cambridge.

453 service connections have been made; there has been a net increase of 72 in the number of hydrants and 75 in the number of gates. Seven new water-posts have been set and one drinking-fountain has been connected with the main in Teele square.

The total length of distribution mains now in the city is 76 miles 593 feet, of which 14 miles, 4,970 feet is cement-lined pipe.

The high-service system is in excellent condition; the stand-pipe has been recaulked and given a coat of paint.

The number of bursts on street mains on the low service has largely decreased as the result of replacing the weakened cement pipe with iron. There are many streets which need renewing at an early date.

All fixtures of the water-works have been inspected and necessary repairs made.

Respectfully submitted,

N. DENNETT,
Superintendent.

REPORT OF THE ENGINEER OF THE PUMPING STATION.

High Service Pumping Station,

Somerville, Dec. 31, 1896.

To the Somerville Mystic Water Board:—

Gentlemen,—The following table shows the work done at the High Service pumping station for the year ending Dec. 31st, 1896.

The amount of coal used also includes the heating of the building.

There have been no breaks or accidents during the year, and the boilers and machinery are in good condition:—

Date 1896.	No. of Days.	No. of Runs.	Pumping Time in Hours.	Gallons of Water Pumped.	Pounds of Coal Burned.	Pounds of Ashes and Clinkers.
Jan. . .	31	62	202.30	18,026,640	55,900	4,480
Feb. . .	29	60	182.30	17,189,328	52,775	4,105
Mch. . .	31	62	187.00	17,766,432	56,925	4,450
Apr. . .	30	60	177.30	17,044,224	53,750	4,000
May. . .	31	62	215.00	20,304,576	61,525	6,700
June. . .	30	60	206.30	20,644,800	63,425	5,650
July. . .	31	62	208.30	20,256,000	60,725	6,550
Aug. . .	31	62	213.30	19,689,600	66,400	8,525
Sept. . .	30	60	188.00	17,761,056	62,785	9,115
Oct. . .	31	62	190.00	17,498,640	66,000	7,825
Nov. . .	30	60	205.30	19,666,704	65,625	7,150
Dec. . .	31	62	208.30	21,432,000	71,050	8,675
Total . .	366	735	2,385.00	227,280,000	736,885	77,225

Respectfully submitted,

SIDNEY E. HAYDEN,

Engineer.

REPORT
OF THE
BOARD OF HEALTH.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, February 10, 1897.

Referred to the Committee on Printing, to be printed in the annual reports. Sent down for concurrence.

GEORGE I. VINCENT, *Clerk*.

IN COMMON COUNCIL, February 11, 1897.

Referred to the Committee on Printing, to be printed in the annual reports, in concurrence.

CHARLES S. ROBERTSON, *Clerk*.

CITY OF SOMERVILLE.

OFFICE OF THE BOARD OF HEALTH }
CITY HALL, January 1, 1897. }

TO HIS HONOR, THE MAYOR, AND THE CITY COUNCIL:—

Gentlemen,—We respectfully submit the following as the nineteenth annual report of the Board of Health, in which is presented a statement, tabulated and otherwise, of the sanitary condition of the city and the business of the Board for the year ending December 31, 1896.

ORGANIZATION.

Chairman, Allen F. Carpenter.

Clerk, William P. Mitchell.

Agent, Caleb A. Page.

NUISANCES.

A record of nuisances abated during the year, in compliance with notices issued by the Board, or under the Board's direction, is presented in the following table, under the head of months when the complaints were made:—

NUISANCES ABATED IN THE YEAR 1896.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Cellar damp	2	3	6	4	6	1	....	1	5	2	5	4	39
Cesspool offensive	1	2	1	1	2	....	....	3	1	1	....	1	13
Cesspool overflowing	2	2	3	6	4	1	....	2	....	....	1	....	21
Connections of drainage pipes defective	3	2	6	8	9	....	3	3	3	2	....	1	40
Cow barn offensive . . . . .	....	....	....	....	....	1	....	1	....	....	....	....	2
Drainage defective	2	4	6	8	4	....	2	....	3	1	....	2	32
Drainage emptying into cel- lar	3	....	....	....	3	....	1	2	1	1	2	3	16
Drainage emptying on sur- face	3	4	3	3	4	2	1	....	3	3	1	1	28
Drainage not ventilated . . . . .	....	1	2	....	....	....	....	1	1	....	....	1	6
Drain-pipe defective	4	2	3	5	5	1	2	2	1	....	1	3	29
Feeding cows on decayed fruit	1	....	....	....	....	....	....	....	1	....	....	....	2
Fish offal . . . . .	....	....	....	1	....	1	....	1	....	....	....	....	3
Goats kept in cellar . . . . .	....	1	2	....	....	....	....	....	....	....	1	....	4
Goats kept without license . . . . .	....	....	....	2	1	....	....	....	....	....	....	....	3
Hennery offensive . . . . .	....	1	....	2	3	2	1	2	1	....	4	1	17
Hens kept in cellar	2	3	2	....	....	....	....	1	4	....	1	2	15
Horse shed offensive . . . . .	....	....	2	4	5	....	....	3	....	2	....	....	16
Infected bedding . . . . .	....	1	2	....	1	....	1	....	....	....	....	....	5
Manure exposed and offen- sive	2	2	3	5	3	2	2	....	1	2	....	1	23
Manure-pit defective	1	....	....	....	....	2	2	....	1	1	....	1	8
Offal on land . . . . .	....	....	....	2	....	....	1	....	1	....	1	....	5
Offensive odor in and about dwellings	1	....	3	....	....	....	....	1	2	....	1	....	8
Opening in drain-pipe in cel- lar	2	1	2	4	1	....	....	1	....	2	....	1	14
Pigeons kept in house . . . . .	....	....	....	....	....	2	1	....	1	....	1	....	5
Pigs kept in cellar . . . . .	....	....	....	....	....	....	....	....	....	....	1	....	1
Pigs kept without license . . . . .	....	....	....	....	3	2	....	....	....	....	....	....	5
Premises filthy . . . . .	....	....	....	15	12	....	....	....	1	....	....	....	28
Premises untidy	2	3	4	30	21	....	1	1	....	....	....	....	62
Privy-vault defective	3	2	3	9	10	4	2	....	3	3	2	2	43
Privy-vault full	10	3	4	10	11	2	4	....	....	1	....	1	46
Privy-vault offensive	20	10	4	25	21	16	9	11	5	4	8	3	136
Rubbish in cellar . . . . .	....	....	....	2	3	....	....	....	....	....	....	....	5
Sewage flowing under floor . . . . .	....	....	....	1	....	....	....	1	....	1	....	....	3
Sewer-gas in house . . . . .	....	....	2	....	1	....	....	....	1	....	....	....	4
Slops thrown on surface . . . . .	....	1	....	1	2	....	....	....	....	....	1	....	5
Stable infected with glanders	3	....	....	1	1	....	2	2	1	....	1	1	12
Stable and stable premises filthy and offensive	2	2	6	10	5	4	....	1	1	2	3	1	37
Stable without drainage	3	2	3	5	6	3	4	2	2	7	1	2	40
Stagnant water on surface . . . . .	....	....	1	3	2	1	....	1	....	2	....	....	10
Waste-pipe defective . . . . .	....	2	1	3	1	1	....	....	1	....	....	1	10
Waste-pipe not trapped	1	....	....	3	4	....	2	1	....	1	3	....	15
Water-closet defective	2	1	1	1	3	....	1	....	2	1	1	2	15
Water-closet insufficiently supplied with water	1	....	....	2	....	....	2	....	....	....	....	1	6
Water-closet offensive . . . . .	....	1	1	....	2	....	....	1	....	....	1	....	6
Water in cellar . . . . .	....	....	2	3	....	....	....	1	5	3	1	1	16
Water under stable	1	....	2	4	....	3	1	....	....	1	....	....	12
Total	77	56	80	183	162	49	44	45	52	44	42	37	871

Number of nuisances abated	871
Number of nuisances referred to Board of 1897 . . .	130
Number of nuisances complained of	1001
Number of complaints (many covering more than one nuisance)	503
Number of notices mailed	491
Number of notices served by constables	46

In addition to the above, many nuisances have been abated on verbal notice from the Agent, without action by the Board, and of which no record has been made.

Glanders.—Twelve cases of glanders have occurred during the year. Prompt action was taken in every case, and the horses have been killed. We renew our request of previous years, that owners of horses notify the Board or its Agent, at once, on the appearance of this disease. We renew our request sent to the Committee on Highways last year, that the committee use great care to have the watering troughs cleaned out occasionally, in order to prevent the spread of this disease.

PERMITS.

The record of permits to keep cows, swine, and goats, to collect grease, and to remove manure, is as follows:—

Cows.—Six applications were received for permits to keep seventy-five cows. Five permits to keep twenty cows were granted, and one permit was refused.

Swine.—Thirty-four applications were received for permits to keep sixty-six swine. Thirty-two permits were granted to keep fifty-two swine, and two permits were refused. The fee is one dollar for each swine.

Goats.—Two applications were received for permits to keep three goats, all of which were granted. Fee for each goat, one dollar.

Grease.—Three applications were received for permits to collect grease, all of which were granted. The fee is two dollars. One of the parties licensed resides in Somerville, one in Chelsea, and the other in Charlestown.

Manure.—Nine permits were issued during the year for the carting of manure through the streets of the city in the daytime, between May 1 and November 1. All permits issued for the removal of manure from the stables in the city in the daytime, or for carting through the streets of the city, remain in force until revoked. No fee is charged for these permits.

PEDDLERS.

Two hundred and eighteen certificates of registration were issued to hawkers and peddlers during the year,—an increase of forty-seven over the year 1895. These certificates are issued under Ordinance number thirty of the Revised Ordinances of 1891, and are good for an indefinite period. All peddlers are required to present their vehicles for inspection by the agent of the Board at the Police Station, the first Monday of each month, so that he may see that they are kept in a clean condition and are properly marked with the owner's name and number.

ASHES.

During the past year the ashes have been removed by this department, with teams owned and men hired by the city, under a competent superintendent, who also superintends the collection of house offal.

Nine men, with six horses and carts, are employed in the work.

The number of loads collected each month during the year was as follows:

January	.	.	.	.	.	2,023 loads.
February	.	.	.	.	.	1,899 "
March	.	.	.	.	.	1,778 "
April	.	.	.	.	.	1,976 "
May	.	.	.	.	.	1,676 "
June	.	.	.	.	.	1,174 "
July	.	.	.	.	.	1,303 "
August	.	.	.	.	.	1,166 "
September	.	.	.	.	.	1,285 "
October	.	.	.	.	.	1,578 "
November	.	.	.	.	.	1,427 "
December	.	.	.	.	.	1,955 "
Total	.	.	.	.	.	19,240 "

The collections are made weekly, as follows:

Monday	.	.	.	.	.	in district one.
Tuesday	.	.	.	.	.	" two.
Wednesday	.	.	.	.	.	" three.
Thursday	.	.	.	.	.	" four.
Friday	.	.	.	.	.	" five.
Saturday	.	.	.	.	.	" six.

Materials for removal must be free from filth and offal, must be placed in barrels or boxes, and must be set on the outer edge of the sidewalk before seven o'clock in the morning of the day when the collection is to be made.

The districts were established by the Board of Health of 1890, and are bounded as follows:—

District 1.—Beginning at the Boston line and bounded by the northeasterly line of Pearl street, the southeasterly line of Walnut street, the northeasterly line of Highland avenue, the easterly line of Medford street, the northerly line of Washington street, the northwesterly line of Prospect street, the northerly line of Concord avenue, extended across Beacon street to the Cambridge line, and by the Cambridge and Boston lines.

District 2.—Beginning at the Boston line and bounded by the northeasterly line of Pearl street, the southeasterly line of Walnut street, the northeasterly line of Broadway, the northeasterly line of Main street, and by the Medford and Boston lines.

District 3.—Beginning at the Medford line and bounded by the southeasterly line of Cedar street, the northeasterly line of Highland avenue, the southeasterly line of Walnut street, the northeasterly line of Broadway, the northeasterly line of Main street and by the Medford line.

District 4.—Beginning at the intersection of Medford and Washington streets, and bounded by the northerly line of Washington street, the northwesterly line of Prospect street, the northeasterly line of Somerville avenue, the southeasterly line of School street, the northeasterly line of Summer street, the south-

easterly line of Cedar street, the northeasterly line of Highland avenue, and the easterly line of Medford street to Washington street.

District 5.—Beginning at the intersection of Prospect street and Somerville avenue, and bounded by the northwesterly line of Prospect street, the northerly line of Concord avenue prolonged to the Cambridge line, the Cambridge line (extending westwardly), the southeasterly lines of Oxford, Mossland, and Cedar streets, the northeasterly line of Summer street, the southeasterly line of School street, and the northeasterly line of Somerville avenue to Prospect street.

District 6.—All of that portion of the city lying west of the southeasterly lines of Cedar, Mossland, and Oxford streets.

It will be seen by these descriptions that the side lines of streets are used as boundaries, and not the middle lines; so that ashes are removed from the sidewalks on both sides of a street on the same day.

HOUSE OFFAL.

The house offal has been collected by the city during the year, under the same system that has been employed in the removal of ashes, and which was adopted in both departments in the year 1895.

The force employed consists of sixteen men, with eight horses and wagons.

The cost for the past year was \$10,351.00, in addition to the Superintendent's salary, and the maintenance of the teams and stable, which would be chargeable, proportionately, to this work and the collection of ashes. The amount of eight hundred dollars, received for the offal sold, should be deducted from this expense, as should also the present value of the equipment. (See table of receipts and expenditures at end of this report.)

The following table, showing the number of loads collected each month during the year, may be of interest:—

January	.	.	.	.	.	.	439 loads.
February	.	.	.	.	.	.	400 "
March	.	.	.	.	.	.	416 "
April	.	.	.	.	.	.	406 "
May	.	.	.	.	.	.	416 "
June	.	.	.	.	.	.	437 "
July	.	.	.	.	.	.	442 "
August	.	.	.	.	.	.	469 "
September	.	.	.	.	.	.	501 "
October	.	.	.	.	.	.	428 "
November	.	.	.	.	.	.	304 "
December	.	.	.	.	.	.	451 "
Total	.	.	.	.	.	.	5,109 "

NIGHT SOIL.

The removal of night soil has been made by R. M. Johnson of Arlington during the past year, and has been carried on by the "Odorless" process.

The contract price which the owner or occupant is charged is four dollars for every load, or part of a load, of eighty cubic feet. An order box for the removal is kept at the Police Station on Bow street.

The collection of night soil during the year has been very small, as the old-fashioned privy-vaults have been almost entirely removed.

STABLES.

The following is a copy of an Act of the Legislature of 1895, Chapter 213, relating to the licensing and regulating of stables in cities:—

Section 1.—No person shall hereafter erect, occupy, or use for a stable, any building in any city whose population exceeds 50,000, unless first licensed so to do by the Board of Health of said city, and in such case only to the extent so licensed.

Section 2.—The foregoing provisions shall not be construed to prevent any such occupation and use which may be authorized by law at the time of the passage of this Act, to the extent and

by the person or persons so authorized; provided, however, that the Board of Health, of any such city, may make such regulations or orders respecting the drainage, ventilation, number of animals, and the storage and handling of manure, in any existing stables in their respective cities as in their judgment the public health requires.

Section 3.—Whoever violates the provisions of this Act, or of any regulation or order made pursuant thereto, shall be punished by a fine of five dollars for each day such offence continues; and any court having equity jurisdiction may restrain any such erection, occupation, or use contrary to the provisions of this Act. (Approved April 4, 1895.)

The number of petitions received for licenses to erect stables, under the above law, was eighty-two.

Number granted	54
Number refused	28

DEATHS.

There were nine hundred and twenty-four deaths and fifty-two stillbirths in the city during the year, as specified in the following table, which shows an increase of deaths over the previous year of eighty-six.

Deaths of children under one year of age	206
Deaths of children over one year and under five years	132
Deaths of Somerville Hospital during the year	34
Deaths of Home for Aged Poor	21

MORTALITY IN SOMERVILLE IN 1896.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
ZYMOTIC DISEASES.													
MIASMATIC.													
Scarlet fever			1					1		2		1	5
Diphtheria	12	5	3	5	4	2	5	2	2	1	7	6	54
Typhoid fever	2		1	2	1	2	1	2	6	3	5	1	26
Erysipelas		2	2	1		1							6
Diarrhœa								1	1				2
Cholera morbus								1					1
Cholera infantum				1			23	28	16	2			70
Whooping cough							1	3	1				5
Dysentery							1		2		1	1	5
Rheumatism	2			1									3
Croup	1			1			1		1	3	4		11
La grippe		1	1	1									3
Meningitis	3	5	3	3	5	5	3	2	2			1	32
Measles					1		1	2		1	1		6
CONSTITUTIONAL DISEASES.													
DIATHETIC.													
Anæmia			1		2		3	1	2	2		2	13
Cancer	3	2		1	4	1	3		4	1	1	4	24
Tumor			1			1	1		2	1	1	2	9
Gangrene					2					1			3
TUBERCULAR.													
Tuberculosis	2	1	2	3	2		3	2	3	2		2	22
Tubercular meningitis.		1	3	1	1			1	1	1		1	10
Phthisis	3	7	7	4	5	10	5	3	5	7	7	7	70
LOCAL DISEASES.													
NERVOUS SYSTEM.													
Apoplexy	5	5	2	1	4	1	2	1	1	1	2	2	27
Paralysis	1	1	1	2		4		1	2			2	14
Brain diseases				1		1	1			1	1		5
Convulsions	1	2	3		1		3				1	1	12
Spinal disease	1										1		2
Hemiplegia					1	1			1				3
Epilepsy	1		1						1				3
Myelitis	1				1		1		1		1		5
ORGANS OF CIRCULATION.													
Heart disease.	9	5	4	9	5	14	7	8	7	8	3	5	84
Aneurism								1	2			1	4
Angina pectoris			1							1			2
Cyanosis					1		1		1	1			4
Hypertrophia.								1	1		1		3
RESPIRATORY ORGANS.													
Pneumonia	5	9	11	12	16	2	9	2	1	11	9	10	97
Bronchitis	1		5	2	2		2		2	1	1	2	18
Hemorrhage	1	1	1								1		4
Pleurisy	1									1			2
Asthma							1		1	1			3
Laryngitis		1								1			2
Pulmonary œdema				1		1		1		1		1	5
Emphysema							1	1		1	1		4

MORTALITY IN SOMERVILLE IN 1896 — *Concluded.*

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
LOCAL DISEASES.													
DIGESTIVE ORGANS.													
Gastritis . . . . .	...	...	1	1	...	...	1	1	...	1	...	1	6
Peritonitis	2	...	1	...	...	2	2	...	1	...	...	...	8
Hepatitis . . . . .	...	1	...	...	...	...	...	...	...	...	...	1	2
Liver disease . . . . .	...	...	...	2	...	1	...	...	...	...	...	...	3
Gastric ulcer . . . . .	...	...	...	...	...	...	...	...	...	...	1	...	1
Enteritis	1	1	1	3	...	1	7	3	1	1	...	1	20
Hæmatemesis	1	...	...	...	...	1	...	...	1	...	...	...	3
Hernia . . . . .	...	...	...	...	...	...	...	...	1	1	...	...	2
Jaundice	1	1	1	...	...	...	...	1	...	...	...	...	4
Appendicitis . . . . .	...	...	...	...	...	...	...	...	2	...	...	...	2
Cirrhosis	1	...	1	...	...	...	...	...	1	...	...	...	3
GENITO-URINARY ORGANS.													
Bright's disease . . . . .	...	2	1	1	...	3	4	1	...	1	1	2	16
Diabetes	1	...	1	...	...	...	1	1	...	1	1	1	7
Cystitis . . . . .	...	1	...	...	...	...	...	1	1	...	...	...	3
Nephritis	4	2	1	...	1	1	1	...	1	2	1	1	15
Childbirth . . . . .	...	...	...	...	...	...	...	...	...	1	...	1	2
Eclampsia	1	1	1	1	...	...	1	...	1	...	1	...	7
INTEGUMENTARY SYSTEM.													
Abcess	1	...	...	...	1	...	...	1	...	1	2	...	6
Pemphigus . . . . .	...	...	...	1	...	...	...	...	...	1	...	...	2
Eczema . . . . .	...	...	...	...	1	...	...	...	1	...	...	...	2
Ulcer	1	1	...	...	...	...	...	...	...	1	...	...	3
DEVELOPMENTAL DISEASES.													
OF CHILDREN.													
Inanition	4	4	...	1	1	2	...	2	4	1	1	2	22
Premature birth and congenital debility	3	1	2	2	2	...	2	2	...	...	5	2	21
OF OLD PEOPLE.													
Old age	1	3	2	5	4	2	2	4	8	1	...	3	35
VIOLENT DEATHS.													
Railroad	1	1	...	...	...	3	...	...	1	1	1	3	11
Suicide . . . . .	...	...	...	...	1	...	...	...	1	1	...	...	3
Homicide . . . . .	...	...	...	...	...	...	...	...	...	...	...	1	1
Accidental Poisoning . . . . .	...	...	1	...	...	...	...	...	1	...	1	...	3
Asphyxia	1	1	1	...	1	...	...	...	...	...	...	1	5
Accidental Drowning . . . . .	...	...	...	...	2	...	...	...	...	...	...	...	2
Burning . . . . .	...	...	...	...	1	1	...	...	...	1	...	2	5
Alcoholism . . . . .	...	...	...	...	...	...	...	1	...	1	...	...	2
Concussion of brain . . . . .	...	...	...	1	...	...	...	1	...	...	...	...	2
Fracture of hip	1	...	1	1	...	...	1	...	...	...	...	...	4
Fracture of ribs . . . . .	...	...	...	...	...	1	...	...	...	...	1	...	3
Fracture of skull . . . . .	...	...	...	...	...	...	...	2	...	1	...	...	3
Sunstroke . . . . .	...	...	...	...	...	...	...	2	...	...	...	...	2
Total	80	68	70	71	73	64	101	89	95	74	65	74	924
Stillborn	4	4	5	2	3	3	7	3	5	7	6	3	52

Population (estimated)
 Death rate per thousand,

56,000
 16.5

DISEASES DANGEROUS TO THE PUBLIC HEALTH.

This Board has adjudged small pox, scarlet fever, diphtheria, typhus fever, and typhoid fever to be contagious and dangerous to the public health, within the meaning of the statutes. Physicians are required to report immediately to the Board, every case of either of these diseases coming under their care, and postal cards conveniently printed and addressed, are supplied to them for the purpose.

Scarlet Fever.—One hundred and forty-two cases of scarlet fever have been reported during the year, five of which resulted fatally. In 1895 there were two hundred and seventeen cases, seventeen of which resulted fatally.

Diphtheria.—Four hundred and thirty cases of diphtheria have been reported during the year, fifty-four of which were fatal. In 1895 there were two hundred and forty-six cases, forty-three of which proved fatal. Warning cards are used in dealing with scarlet fever and with diphtheria, and the premises are fumigated immediately after the termination of a case. An inspection is made by the agent of the Board, of the premises where diphtheria is reported, and all sanitary defects discovered are required to be remedied as soon as possible.

Typhus Fever.—This disease has not appeared in our city during the past year.

Typhoid Fever.—Eighty-eight cases of typhoid fever have been reported during the year, twenty-six of which have proved fatal. In 1895 there were sixty-one cases reported, ten of which were fatal.

Small Pox.—The city has been free from this disease during the year.

Tables.—The prevalence of scarlet fever, diphtheria and typhoid fever in the city during the several months of the year 1896 is shown by the following table, and in the table next following is given the number of deaths from these three diseases, by months, during the last ten years:—

SCARLET FEVER, DIPHTHERIA, AND TYPHOID FEVER
REPORTED IN 1896.

MONTHS.	SCARLET FEVER.			DIPHTHERIA.			TYPHOID FEVER.		
	Cases Reported.	Number of Deaths.	Percentage of Deaths.	Cases Reported.	Number of Deaths.	Percentage of Deaths.	Cases Reported.	Number of Deaths.	Percentage of Deaths.
January . .	11	....	....	62	12	19.3	1	2	....
February . .	8	....	....	27	5	18.5	1	....	....
March . . .	13	1	7.7	20	3	15.	3	1	33.3
April . . .	6	....	....	48	5	10.4	4	2	50.
May	14	....	....	35	4	11.4	3	1	33.3
June	20	....	....	36	2	5.6	4	2	50.
July	15	....	....	28	5	17.9	3	1	33.3
August . . .	6	1	16.7	23	2	8.7	11	2	18.2
September .	9	....	....	29	2	7.	27	6	22.2
October . .	16	2	12.5	41	1	2.44	10	3	30.
November .	13	....	....	45	7	16.	16	5	31.2
December .	11	1	9.	36	6	16.6	5	1	20.
Total . .	142	5	3.5	430	54	12.6	88	26	29.5

DEATHS FROM SCARLET FEVER, DIPHTHERIA AND TYPHOID
FEVER IN THE LAST TEN YEARS.

MONTHS.	SCARLET FEVER.										DIPHTHERIA.										TYPHOID FEVER.									
	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.
January . .	1	5	..	..	..	1	7	8	..	2	1	1	2	2	2	2	2	4	12	..	3	..	..	..	1	..	..	2	..	2
February . .	..	3	1	2	..	..	3	5	..	1	3	..	2	..	..	1	3	1	5	..	..	..	..	1	..	2	..	..	1	1
March . . .	1	4	1	1	..	3	..	7	2	1	..	..	4	2	..	2	..	4	6	3	2	..	..	..	1	..	..	..	1	1
April . . .	..	1	..	..	..	2	..	3	1	..	1	3	2	1	1	2	2	1	6	5	1	..	1	2	2	..	1	..	..	2
May	1	1	..	..	1	4	..	7	..	..	..	1	6	1	1	1	2	3	4	4	1	..	..	1	..	..	2	..	1	1
June	1	1	1	1	1	..	..	4	..	..	..	1	4	..	..	..	..	..	2	..	..	..	1	..	..	..	1	1	1	2
July . . . .	..	..	1	..	..	1	..	4	1	..	..	2	1	4	1	..	..	1	2	5	1	2	..	2	..	1	..	1	..	1
August . . .	..	..	..	..	..	..	3	..	1	..	..	..	1	1	..	..	4	3	2	2	2	..	2	1	..	1	3	1	2	2
September .	..	..	..	..	..	2	1	..	..	1	1	1	..	3	..	1	..	2	2	1	1	4	2	1	2	4	2	2	..	6
October . .	6	..	1	..	..	1	..	3	..	2	3	4	2	3	3	..	1	4	3	1	1	3	1	1	2	3	3	..	4	3
November .	11	..	2	..	..	9	7	..	..	1	1	4	1	3	4	1	2	5	4	7	2	3	..	1	3	..	2	2	..	5
December .	10	..	..	1	..	3	7	2	..	1	2	1	5	2	3	..	..	1	8	6	..	2	..	..	..	..	2	2	1	1
Total . .	31	15	7	5	2	14	19	51	17	5	11	21	28	21	18	8	11	28	43	54	11	17	7	10	11	11	13	13	10	26

MAP OF
SOMERVILLE
1897
SHOWING HEALTH DISTRICTS.



SEWERS SHOWN THUS - - - - -

DISTRICTS.

The accompanying map shows the boundaries of the ten health districts into which the city was divided by the Board of Health of 1878; also the locations of common sewers.

A record has been kept from year to year of the number of deaths, the death rate per thousand, the prevalence of dangerous diseases and the number of nuisances abated in these several districts, and is continued in the following tables.

The estimated population in the several districts was originally based on the number of assessed polls in each, and upon the population of the entire city; the ratio of polls to population being presumed to be the same in all the districts. Substantially the same method of estimating the population has been continued, the census of every fifth year being taken as a basis for calculation.

We have obtained the number of dwellings and of assessed polls, May 1, 1896, from the assessors' books, by actual count, as was also done for the years 1894 and 1895, instead of assuming, as had been done in former years, that their increase was uniform throughout the city.

TABLE OF DEATHS IN EACH DISTRICT DURING THE LAST TEN YEARS, EXCLUSIVE OF
DEATHS IN THE McLEAN ASYLUM.

Districts	I.		II.		III.		IV.		V.		VI.		VII.		VIII.		IX.		X.		Entire City.	
	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.
Area	337A.	107A.	33A.	171A.	361A.	283A.	194A.	482A.	174A.	456A.	2,660A.											
Population.	7,104	5,591	4,688	5,602	11,160	5,992	6,697	2,725	3,953	2,488	56,000											
Dwellings	1,048	988	793	958	2,035	1,133	1,204	504	755	574	9,992											
Average in each dwelling	6.8	5.7	5.9	5.8	5.4	5.3	5.6	5.4	5.2	4.3	5.6											
YEAR.	I.		II.		III.		IV.		V.		VI.		VII.		VIII.		IX.		X.		Entire City.	
	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.
1887	182	29	54	9	45	19	81	19	87	13	37	25	62	17	20	19	26	14	12	14	606	18
1888	148	23	68	11	44	18	62	14	117	18	33	22	50	13	16	14	26	14	13	15	579	16
1889	125	16	67	9	48	17	85	17	105	14	28	17	62	15	19	15	26	12	17	17	582	15
1890	140	19	69	9	47	17	94	19	139	18	46	27	59	14	27	22	26	12	15	17	663	16
1891	169	22	71	9	68	23	103	20	120	15	75	32	77	17	33	25	33	14	12	12	761	18
1892	139	17	75	9	42	13	76	14	144	16	65	34	59	12	27	19	44	17	25	22	696	16
1893	161	18	80	9	63	16	94	16	180	20	64	20	72	14	23	13	26	9	27	18	790	15
1894	157	22	86	12	86	19	117	21	188	18	70	13	64	10	43	17	29	10	37	11	855	16
1895	136	19	76	14	91	20	94	17	184	17	77	15	67	16	29	12	29	8	40	17	823	16
1896	155	22	94	18	77	17	105	19	180	16	97	16	82	13	46	16	36	9	52	21	924	17
Average death rate per 1,000 for ten years.	21	11	18	18	17	23	14	17	17	17	12	16	16	16	16	16	16	16	16	16	16	16

In 1896.

TABLE SHOWING THE FIVE PRINCIPAL CAUSES OF DEATH IN
SOMERVILLE IN 1896. WITH THE NUMBER AND RATE
IN EACH DISTRICT.

DISTRICTS.	PNEUMONIA		HEART DISEASE.		PHTHISIS.		CHOLERA INFANTUM.		DIPH- THERIA.	
	Number of Deaths.	Number per 1,000 of Pop.	Number of Deaths.	Number per 1,000 of Pop.	Number of Deaths.	Number per 1,000 of Pop.	Number of Deaths.	Number per 1,000 of Pop.	Number of Deaths.	Number per 1,000 of Pop.
I.	23	3.24	7	0.99	18	2.53	24	3.38	16	2.25
II.	10	1.78	9	1.61	1	0.18	6	1.07	7	10.73
III.	11	2.35	8	1.71	9	1.92	4	0.85	1	0.21
IV.	6	1.07	9	1.60	12	2.14	6	1.07	7	1.25
V.	19	1.70	14	1.26	6	0.54	7	0.63	8	0.72
VI.	9	1.50	7	1.17	9	1.50	11	1.84	4	0.67
VII.	8	1.19	7	1.05	6	0.89	6	0.89	5	0.75
VIII.	3	1.10	7	2.57	..	....	2	0.73	5	1.83
IX.	4	1.01	5	1.27	1	0.25	1	0.25	..	....
X.	4	1.61	11	4.42	8	3.22	3	1.21	1	0.41
Total	97	1.73	84	1.50	70	1.25	70	1.25	54	0.96

TABLE OF SCARLET FEVER, DIPHTHERIA, AND TYPHOID
FEVER IN EACH DISTRICT IN 1896.

DISTRICTS.	SCARLET FEVER.				DIPHTHERIA.				TYPHOID FEVER.			
	Cases Reported.	Deaths.	Cases per 1,000 of Pop.	Death per 1,000 of Pop.	Cases Reported.	Deaths.	Cases per 1,000 of Pop.	Death per 1,000 of Pop.	Cases Reported.	Deaths.	Cases per 1,000 of Pop.	Death per 1,000 of Pop.
I. . .	8	2	1.12	0.28	85	16	11.96	2.25	10	..	1.04	....
II. . .	4	..	0.72	....	60	7	10.73	1.25	9	4	1.61	0.72
III. . .	7	..	1.49	....	28	1	5.97	0.21	5	2	1.07	0.43
IV. . .	12	..	2.14	....	41	7	7.32	1.25	11	2	1.97	0.36
V. . .	25	..	2.24	....	68	8	6.09	0.72	13	8	1.16	0.72
VI. . .	17	..	2.84	....	43	4	7.18	0.67	6	..	1.00	....
VII. . .	23	1	3.45	0.15	46	5	6.87	0.75	7	3	1.05	0.45
VIII. . .	23	1	8.44	0.38	30	5	11.00	1.83	8	3	2.93	1.10
IX. . .	7	1	1.77	0.25	14	..	3.54	....	11	2	2.78	0.51
X. . .	16	..	6.43	....	15	1	6.03	0.41	8	2	3.22	0.81
Total .	142	5	2.53	0.09	430	54	7.68	0.93	88	26	1.57	0.46

RATES PER THOUSAND OF POPULATION OF CASES OF SCARLET FEVER, DIPHTHERIA AND TYPHOID FEVER
REPORTED, AND OF DEATHS FROM THE SAME, IN THE LAST SEVEN YEARS.

DISTRICTS.	1890.			1891.			1892.			1893.			1894.			1895.			AVERAGE FOR SEVEN YEARS.			
	Scarlet Fever.	Diphtheria.	Typhoid Fever.	Scarlet Fever.	Diphtheria.	Typhoid Fever.	Scarlet Fever.	Diphtheria.	Typhoid Fever.	Scarlet Fever.	Diphtheria.	Typhoid Fever.	Scarlet Fever.	Diphtheria.	Typhoid Fever.	Scarlet Fever.	Diphtheria.	Typhoid Fever.	Scarlet Fever.	Diphtheria.	Typhoid Fever.	
I. .	3.55 0.55	1.51 0.14 0.82	0.82	2.05 0.38	1.80 0.38 0.77	0.77	6.43 0.36 0.83	0.95 0.12 0.83	0.95	8.86 0.57 1.13	1.36 0.23 1.11	1.36	13.98 2.73 1.44	1.15 0.57 1.14	1.15	4.47 0.86 5.19	0.86 1.01 .....	.....	1.12 0.28 11.96	1.40 1.40	3.41 0.73 1.05	1.05 0.07 0.07
II. .	0.42 0.42	2.37 0.69 0.28	0.69	0.79 0.66	1.45 0.39 1.18	1.18	9.75 0.37 0.49	0.37 0.24 0.37	0.37	4.07 0.93	1.04 0.47 1.04	1.04	4.45 1.30	0.74 0.18 0.74	0.74	2.10 0.19 4.27	1.86 1.11 0.74	.....	0.72 10.73	1.61 1.61	3.34 0.59 1.07	1.07 0.40 0.40
III. .	7.97 0.73	3.18 0.37 1.09	1.09	8.53 0.34 4.44	2.39 1.02 0.61	0.61	11.38 0.63 1.89	0.95 0.31 0.95	0.95	9.58 0.53 0.79	1.59 0.27 1.59	1.59	11.98 1.99 1.33	1.33 1.33	1.33	5.32 0.22 7.77	1.33 0.66	.....	1.49 5.97	1.07 0.43 1.07	8.04 0.53 4.07	1.39 0.25 0.74
IV. .	3.28 0.21 1.64	6.57 1.03	1.03	3.47 0.19 0.39	1.35 0.39 0.39	1.16	5.19 0.36 0.18	0.36 0.17	0.36	5.70 0.86 0.35	0.34 0.17 0.34	0.34	14.37 2.24 1.49	0.74 0.18 0.74	0.74	5.41 0.74 1.68	1.49 0.37 .....	.....	2.14 7.32	1.97 0.36 1.97	5.65 0.66 3.71	1.01 0.21 1.01
V. .	6.34 0.26 0.26	2.34 0.91 0.26	0.91	3.65 0.12	1.22 0.97 0.12	0.97	7.78 0.34 1.02	3.83 0.11 0.56	0.56	5.47 0.11 1.13	1.71 0.57 1.71	1.71	5.75 0.38 0.67	1.34 0.38 0.38	1.34	4.13 0.09 1.25	0.48 0.29 0.29	.....	2.24 6.09	1.16 0.72 1.16	5.05 0.17 0.43	1.49 0.41 0.41
VI. .	6.58 0.59	4.19 2.39 1.19	2.39	2.25 0.56	0.56 0.56 0.56	0.81	14.57 0.52	2.08 0.16 0.52	0.52	6.26 0.62 1.56	1.25 0.31 1.25	1.25	9.85 0.75 0.94	0.94 0.18 0.94	0.94	3.03 0.19 2.08	0.57 0.38	.....	2.84 7.18	1.00 1.00	6.49 0.22 2.66	1.88 0.35 0.35
VII. .	5.26 0.24	3.37 0.95	0.95	1.80 0.45	0.88 2.47 0.45	2.47	9.17 0.21	1.46 0.21 0.21	0.21	4.59 0.19 1.39	0.79 0.19 0.79	0.79	4.69 0.15	0.62 0.31 0.31	0.62	2.81 0.31 3.44	1.09 0.31 .....	.....	3.45 0.15 0.75	1.05 0.45 0.45	4.54 0.14 2.28	1.21 0.27 1.21
VIII. .	3.27 0.81	4.08 1.63	1.63	3.06 0.76	1.53 0.76	1.53	4.96 0.71	..... 0.78 0.71	0.71	5.68 0.57 1.13	1.70 0.65 1.70	1.70	8.29 0.41 0.82	0.82 0.41 0.82	0.82	4.52 2.49	1.66 0.66	.....	8.44 0.38 11.60	2.93 1.10 2.93	5.02 0.19 3.86	1.47 0.43 1.47
IX. .	1.79 0.45	2.23 0.45	0.45	4.20 0.42	2.94 0.42	2.94	7.79 0.78	2.73 0.78 2.73	2.73	5.59 1.75	2.73 2.73	2.73	6.35 0.27 1.38	1.92 0.55 1.92	1.92	2.77 2.49	1.65 0.28 1.65	.....	1.77 0.25 3.54	2.78 0.51 2.78	4.32 0.08 2.16	1.75 0.31 1.75
X. .	4.13 1.03	1.03 2.06	2.06	9.71 0.97	0.97 0.97	0.97	3.59 0.90	1.80 1.80	1.80	8.89 1.36 2.73	..... 1.37 2.73	2.73	6.49 2.59	1.73 1.73	1.73	8.23 0.43 4.76	2.60 2.60	.....	6.43 6.03	3.22 0.81 3.22	6.78 0.26 2.71	1.63 0.12 1.63
City. .	4.01 0.07 0.54	2.89 0.97 0.24	0.97	2.97 0.05 0.42	1.62 0.26 0.42	1.26	8.06 0.30 0.17	0.85 0.17 0.24	0.24	6.23 0.38 1.12	1.18 0.26 1.18	1.18	8.59 0.96 2.09	1.10 0.53 1.10	1.10	4.12 0.32 4.68	1.16 0.19 1.16	.....	2.53 0.09 7.68	1.57 0.46 1.57	5.22 0.31 2.99	1.27 0.52 1.27

NUISANCES ABATED IN EACH DISTRICT IN 1895.

	I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	Total
Population (estimated) . . .	7,104	5,591	4,688	5,602	11,160	5,992	6,697	2,725	3,953	2,488	56,000
Cellar damp	4	3	6	5	1	4	6	5	2	3	39
Cesspool offensive	1	1	.....	1	.....	1	1	6	1	1	13
Cesspool overflowing . . .	1	1	.....	1	1	3	.....	9	.....	5	21
Connections of drainage pipes defective	9	4	4	3	4	6	3	3	2	2	40
Cow-barn offensive . . . .	.....	.....	.....	.....	.....	1	.....	1	.....	.....	2
Drainage defective	10	4	4	1	1	2	3	4	2	1	32
Drainage emptying into cellar .	3	1	2	1	1	2	1	1	3	1	16
Drainage emptying on surface .	4	2	2	3	2	1	.....	14	.....	.....	28
Drainage not ventilated . .	2	.....	.....	.....	.....	1	2	.....	.....	1	6
Drain-pipe defective	6	1	3	1	4	3	4	2	2	3	29
Feeding cows on decayed fruit . . . . .	.....	.....	.....	.....	.....	1	.....	1	.....	.....	2
Fish offal . . . . .	.....	.....	1	1	.....	.....	1	.....	.....	.....	3
Goats kept without license . .	1	.....	.....	3	.....	.....	.....	.....	.....	.....	4
Goats kept in cellar	1	.....	.....	2	.....	.....	.....	.....	.....	.....	3
Hennery offensive	2	3	2	2	.....	1	3	1	1	2	17
Hens kept in cellar	3	3	1	2	.....	1	1	2	.....	2	15
Horse-shed offensive	2	.....	1	5	1	2	3	2	.....	.....	16
Infected bedding	1	1	.....	1	2	.....	.....	.....	.....	.....	5
Manure exposed and offensive .	3	1	2	2	2	3	2	5	1	2	23
Manure pit defective	2	1	1	.....	.....	1	2	1	.....	.....	8
Offal on land	1	.....	1	2	.....	.....	.....	.....	1	.....	5
Offensive odor in and about dwellings .	3	1	.....	.....	.....	1	1	.....	1	1	8
Opening in drain-pipe in cellar .	1	1	2	3	2	2	1	1	1	.....	14
Pigs kept in cellar	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Pigeons kept in house	1	.....	3	.....	.....	.....	1	.....	.....	.....	5
Pigs kept without license . . .	1	.....	.....	1	1	1	.....	1	.....	.....	5
Premises filthy	2	2	4	4	2	4	2	6	1	1	28
Premises untidy	18	4	4	6	3	8	7	5	4	3	62
Privy-vault defective	20	1	2	7	1	4	3	2	1	2	43
Privy-vault full	16	4	1	4	1	8	4	3	2	3	46
Privy-vault offensive	40	12	11	17	5	24	8	10	4	5	136
Rubbish in cellar	2	.....	.....	2	.....	.....	.....	.....	1	.....	5
Sewage flowing under floor . .	1	.....	1	.....	.....	1	.....	.....	.....	.....	3
Sewer gas in house	2	.....	.....	.....	1	.....	.....	.....	.....	1	4
Slops thrown on surface . . .	2	.....	1	1	.....	.....	.....	1	.....	.....	5
Stable infected with glanders .	2	2	.....	1	.....	3	2	2	.....	.....	12
Stable and stable premises filthy and offensive	3	1	1	7	2	8	4	5	5	1	37
Stable without drainage . . .	4	2	2	6	2	7	3	6	6	2	40
Stagnant water on surface . .	1	.....	.....	.....	.....	2	2	3	1	1	10
Waste-pipe defective	3	1	2	1	1	.....	1	.....	.....	.....	10
Waste-pipe not trapped	4	2	1	3	1	2	.....	1	1	.....	15
Water-closet defective	8	2	.....	2	2	.....	.....	.....	1	.....	15
Water-closet insufficiently supplied with water	2	.....	.....	.....	.....	1	.....	1	.....	2	6
Water-closet offensive	3	1	.....	.....	.....	.....	1	.....	1	.....	6
Water in cellar	2	2	3	2	1	2	1	1	1	1	16
Water under stable	4	1	1	2	.....	.....	1	2	.....	1	12
Total	202	65	69	105	44	111	74	107	46	48	871

APPROPRIATION FOR HEALTH DEPARTMENT AND EXPENDITURES THEREFROM.

CREDIT.

Appropriation	\$20,000.00
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Receipts:—

For permits to keep swine and goats and to collect grease	61.00
Fee from owners of dogs while in pound	177.00
Sale of offal to Hannibal S. Paul	800.00
Somerville Hospital, naphtha	4.50

Total credit	21,042.50
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Expenditures:—

For Agent's salary	\$1,200.00
Salary of Superintendent of collection of ashes and offal	900.00
Collecting ashes	5,458.00
Collecting offal	10,351.00
Burying dead animals	80.15
Stable expenses (including repairs and lighting)	777.66
Vaccine virus	26.65
Wagons and sleds, and repairing same	622.55
Exchange of horse	51.24
Horse doctoring	42.00
Harnesses and horse clothing	150.45
Hay, straw and grain	2,467.20
Horseshoeing	355.91

Amounts carried forward,	\$00,000.00	\$21,042.50
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<i>Amounts brought forward</i>	.	\$00,000.00	\$21,042.50
Tools, and repairing same	.	50.73	
Expense of dog pound	.	357.79	
Books, stationery, printing, advertising and postage	.	90.25	
Incidentals	.	339.38	
		<hr/>	
Total expenditure	.		23,320.96
			<hr/>
Amount overdrawn	.		\$2,278.46

ALLEN F. CARPENTER, Chairman,
ALVANO T. NICKERSON,
ALVAH B. DEARBORN,
Board of Health.

REPORT
OF THE
OVERSEERS OF THE POOR.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, Feb. 10, 1897.

Referred to Committee on Printing, to be printed in the Annual Reports. Sent down for concurrence.

GEORGE I. VINCENT, *Clerk*.

IN COMMON COUNCIL, Feb. 11, 1897.

Referred to Committee on Printing to be printed in the Annual Reports in concurrence.

CHAS. S. ROBERTSON, *Clerk*.

BOARD OF OVERSEERS OF THE POOR.

HON. ALBION A. PERRY, *Chairman, ex-officio.*

HERBERT E. MERRILL, Ward One.

EDWARD B. WEST, *President,* Ward Two.

EZRA D. SOUTHER, Ward Three.

ALBERT W. EDMANDS, Ward Four.

COMMITTEES.

ON INVESTIGATION AND RELIEF — Mr. West and Mr. Merrill.

ON FINANCE — Mr. Edmands and Mr. Souther.

CHARLES C. FOLSOM, *General Agent.*

CORA F. LEWIS, *Secretary.*

ALVAH B. DEARBORN, M. D., *City Physician.*

Office, Police Building, Bow Street.

CITY OF SOMERVILLE.

OFFICE OF THE OVERSEERS OF THE POOR, }
POLICE BUILDING, BOW ST., Dec. 31, 1896. }

To the Honorable, the Mayor, and the City Council of the City of Somerville:—

Gentlemen,—The annual report of the Overseers of the Poor, with the annexed tables, is herewith submitted. The membership of the Board remains the same as in the year 1895.

The year 1896 has been a very active one in the Poor Department of this city; more than the usual number of "Out of Work Cases" have been reported. About the usual number of cases have been reported where the husband and father has deserted his family. We see about the usual number of "Heads of Families" in the "Dock" at the Police Court, and we ask the same old questions, "What can be done to furnish work for those who desire it, and to compel all others to support their families?" Quite a large number of men who work for the city in the summers and are inclined to spend all their earnings as they go (for things necessary or otherwise), come to the Overseers of the Poor in winter for help for their families. We cannot refuse them, if they are really destitute; but we propose hereafter to ask them to refund this amount to the city, when they have work, especially in cases where the parties are inclined to spend their money foolishly.

The total amount expended by this Department during the year 1896 was \$21,999.79, we were reimbursed to the amount of \$3,346.86, making the net expenses of the Department \$18,652.93—\$1,800.04 more than the year 1895.

In 1889 our net expenditures were \$12,370.30, in 1896 they have been \$6,282.63 more than in the year 1889. We shall cer-

tainly require an appropriation for 1897 of at least \$20,000.00 to meet the expenses of the year.

The insane, as well as the sane, "full support cases," are increasing slowly, but surely, as our population increases.

We have outgrown our "Safe" accommodations and many of our valuable records are entirely unprotected from fire. We respectfully ask that something be done as soon as possible to provide us with a "Fire-proof Vault" where our records, which have been prepared with so much care, can be securely kept for future reference.

A man enlisted in 1861 and served on Somerville quota. Was killed in 1862. His widow, who lived in this city, became insane in 1868, and was committed to an insane asylum at the city's expense and has been insane since; she is now in a private family, being boarded at the same rate as charged by the asylum. About three years ago we began to make an effort for a pension for this widow. Frank W. Kaan, Esq., of this city was appointed her guardian and he, as well as the Board of Overseers, have left no stone unturned to furnish the Government with the necessary evidence, with the following results: \$183.47, back pay, etc., has already been sent to her guardian, and \$3,890.26, back pension, has been allowed with \$12 per month hereafter, which will make her self-supporting in the future. The city has already paid out for her support \$5,000.00. She is now about seventy years old and is quite well physically, and is likely to live many years.

We renew the recommendation of the last eleven years, to the effect that an Almshouse be erected as soon as possible, for the use of the Department in caring for the unfortunate poor of the city.

Respectfully submitted,

ALBION A. PERRY, Chairman, ex-officio.

HERBERT E. MERRILL, Ward One.

(Signed) EDWARD B. WEST, President, Ward Two.

EZRA D. SOUTHER, Ward Three.

ALBERT W. EDMANDS, Ward Four.

Board of Overseers of the Poor.

TABLE No. 1.
PARTIAL SUPPORT.
 (Out-door Relief.)

Families aided	302
Persons aided	1,173
Burials	13
Permits to the Tewksbury Almshouse	9

TABLE No. 2.
FULL SUPPORT.
 (During the year.)

In almshouses	23
In private families	17
In hospitals	44
In Massachusetts School for the Feeble-minded	4
Insane persons in private families	4
Insane persons in hospitals	70

TABLE No. 3.
FULL SUPPORT.

(At present time, Dec. 31, 1896.)

In out-of-town almshouses	13
In private families	12
Insane in hospitals (we are reimbursed for three)	51
Insane in private families	4
In hospitals, sane	2

TABLE No. 4.
RECAPITULATION.

Appropriation	\$17,150.00	
Reimbursements	3,346.86	
	<hr/>	
Total receipts		\$20,496.86
Total expenditures		21,999.79
		<hr/>
Account overdrawn		\$1,502.93
Net expenditures		18,652.93

TABLE No. 5.
REIMBURSEMENTS.

Commonwealth of Massachusetts	\$1,003.89
City of Boston	706.63
" Cambridge	286.03
" Gloucester	3.00
" Lawrence	12.55
" Lynn	4.03
" Malden	25.90
" Newton	38.25
" Salem	10.00
" Waltham	17.20
" Worcester	22.90
Town of Canton	2.98
" Danvers	8.00
" Lexington	98.25
" No. Andover	152.17
" Revere	135.81
" Stoneham	52.31
Guardians and Relatives, etc.	731.43
Money refunded	35.53
	<hr/>
	\$3,346.86

TABLE No. 6.

EXPENDITURES, IN DETAIL, FOR THE YEAR 1896.

1896.	Rent.	Board.	Groceries.	Towns and Cities.	Public Institutions	Boots and Shoes.	Dry Goods.	Burial.	Salaries.	Fuel.	Sundries.	Total.
January .	\$49.00	\$75.82	\$420.39	\$964.74	\$2,359.12	\$11.90	. . .	. . .	\$262.50	\$147.26	\$20.40	\$4,311.13
February,	49.00	73.61	228.06	188.03	. . .	10.95	3.35	. . .	262.49	105.01	39.85	960.35
March .	49.00	229.39	355.08	. . .	2,152.90	15.60	. . .	. . .	262.51	104.92	25.48	3,194.88
April .	46.00	88.92	201.14	8.57	42.25	11.00	. . .	10.00	262.51	. . .	112.40	782.79
May .	40.00	139.75	209.90	73.10	327.85	3.20	5.50	10.00	262.50	. . .	31.65	1,103.45
June .	51.00	164.43	235.24	116.57	1,903.90	10.20	. . .	15.00	262.49	. . .	13.61	2,772.44
July .	45.00	89.55	150.49	1,005.54	466.48	1.00	. . .	. . .	262.50	. . .	13.51	2,034.07
August .	40.43	132.96	197.59	332.47	. . .	5.75	. . .	. . .	262.50	. . .	18.28	989.98
September	40.28	168.77	249.71	. . .	1,657.63	4.75	. . .	41.00	262.50	. . .	20.85	2,445.49
October .	40.43	68.18	266.61	230.56	648.37	10.30	3.00	40.00	262.51	21.18	31.36	1,622.50
November	40.28	96.20	223.36	33.21	. . .	9.50	. . .	. . .	262.50	143.05	41.93	850.03
December	40.43	90.82	165.00	211.78	. . .	5.25	6.13	. . .	262.49	121.43	29.35	932.68
Total .	\$530.85	\$1,418.40	\$2,902.57	\$3,164.57	\$9,558.50	\$99.40	\$17.98	\$116.00	\$3,150.00	\$642.85	\$398.67	\$21,999.79

TABLE No. 7.

GROSS EXPENDITURES FROM 1883 TO 1896, INCLUSIVE.

1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.
\$15,959.80	\$17,272.52	\$16,430.32	\$14,341.83	\$13,430.89	\$13,375.98	\$14,610.92	\$15,261.14	\$15,980.49	\$17,015.30	\$17,799.58	\$19,733.13	\$20,755.46	\$21,999.79

REPORT
OF THE
CITY PHYSICIAN.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, February 24, 1897.

Referred to Committee on Printing, to be printed in the Annual Reports. Sent down for concurrence.

GEORGE I. VINCENT, *Clerk*.

IN COMMON COUNCIL, February 24, 1897.

Reference concurred in.

CHARLES S. ROBERTSON, *Clerk*.

CITY OF SOMERVILLE.

OFFICE OF THE CITY PHYSICIAN, }
January 1, 1897. }

TO HIS HONOR, THE MAYOR, AND THE CITY COUNCIL :—

Gentlemen,—I present the following as a summary of the work done by me as city physician for the year ending December 31, 1896:—

Twelve hundred and ninety-one visits have been made.

Number of persons treated at my office, three hundred and thirteen.

One hundred and forty persons have had teeth extracted.

Twelve women were attended in childbirth.

Ninety-five children have been vaccinated.

Number of visits at the police station, thirty-four.

Nineteen persons were examined for the police force, and eighteen for permanent men in the fire department.

Six visits were made and certificates given where persons had died unattended by a physician.

Respectfully submitted,

ALVAH B. DEARBORN,
City Physician.

REPORT
OF THE
COMMITTEE ON HIGHWAYS.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, Feb. 24, 1897.

Referred to Committee on Printing, to be printed in the annual reports,
and sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, Feb. 24, 1897.

Referred to Committee on Printing, to be printed in the annual reports,
in concurrence.

CHAS. S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

IN COMMITTEE ON HIGHWAYS, }
January 1, 1897. }

TO THE CITY COUNCIL :—

Gentlemen,—The Committee on Highways presents the following report for the year ending December 31, 1896:

HIGHWAYS ACCOUNT.

CREDIT.

Appropriation	\$60,000.00
Receipts and credits:—	
Transfer from Highways, City Stable Account	250.00
Transfer from Sidewalks' Account	349.78
Transfer from Interest Account	1,500.00
For bills approved in pay-rolls Nov. 23, 1892, and May 5, 1894, not called for	20.00
For labor and materials furnished prior to Jan. 1, 1896, the bills for which remained uncol- lected that day	282.15
Rent of dwelling at City Farm	\$136.00
Less water rates	45.00
	<hr/> 91.00
Value of tools and property on hand Jan. 1, 1896	10,799.55
Value of materials on hand Jan. 1, 1896	1,878.50
	<hr/>
Total credit	\$75,170.98

DEBIT.

Expenditures:—

For laying out Avon, Banks, Cambria, Houghton, Lee, Lowell and Westminster streets, and Benton, Cameron and Electric avenue (advertising notice of hearings)	\$114.50
--	----------

Construction of Streets:—

Burnside avenue from Elm street to Summer street	\$903.00	
Fanning avenue, from Highland ave. to Lexington ave. . .	403.85	
Hall avenue, from Elm street to Liberty avenue	413.50	
Hancock street, from Elm street to Summer street	1,324.15	
Kenwood street, from Elm street to Billingham street	124.70	
Kidder avenue, from Elm street to Willow avenue	524.40	
Rossmore street, from Somerville avenue to Washington street	272.55	
Summit street, from Elm street to Billingham street	236.10	
Trull street, from Medford street to Vernon street	477.00	
Warwick street, from Cedar street to Warwick avenue	315.10	
		4,994.35
Street crossings		1,291.32
Street signs erected		127.75
<i>Amount carried forward</i>		<u>\$6,527.92</u>

<i>Amount brought forward</i>		\$6,527.92
Repairs and improvements of streets, and paving of gut- ters, in connection with set- ting of edgestones:		
Auburn avenue, westerly side, from Cross street, in front of estates of Stockdon and oth- ers, paving	\$139.40	
Bartlett street, westerly side, from Vernon street to Med- ford street, paving	299.70	
Belmont street, northeasterly side, from Summer street to estate of Joseph K. James, paving	56.76	
Beacon street, northerly side, from Miller street to the Fitchburg railroad bridge, paving	662.44	
Beacon street, northerly side, from Washington street to Vine street, paving	337.03	
Bond street, in front of estate of Robert Duddy and others, paving	39.05	
Broadway, southwesterly side, from Central street to Adams street, paving	398.33	
Broadway, northeasterly side, from No. 257 to No. 303, paving	440.03	
Central street, westerly side, from Highland avenue to Gib- bens street, paving	97.65	
<i>Amounts carried forward</i>	<u>\$2,470.39</u>	<u>\$6,527.92</u>

<i>Amounts brought forward</i> .	\$2,470.39	\$6,527.92
Central street, westerly side, from Westwood road to es- tate of John Haigh, paving .	92.36	
Derby street, northerly side, from Temple street to Grant street:—		
Paving	330.45	
Repairs	364.05	
Elm street, easterly side, from Morrison street to Nathan Tufts Park:—		
Paving	406.15	
Repairs	1,076.18	
Elm street, northerly side, from Cherry street to Willow ave- nue, paving	659.75	
Franklin street, easterly side, from Franklin avenue to Washington street, paving .	161.65	
Highland avenue, northeasterly side, from Central street to Grove street:—		
Paving	1,517.58	
Repairs	838.42	
Highland avenue, southwesterly side, from Crocker street to Tower street, paving	59.40	
Highland avenue, southwesterly side, from Crocker street to Porter street, paving	144.16	
Holland street, in front of the William H. Hodgkins school- house, paving	134.60	
<i>Amounts carried forward</i> .	<u>\$8,255.14</u>	<u>\$6,527.92</u>

<i>Amounts brought forward</i> . .	\$8,255.14	\$6,527.92
Hudson street, southerly side, from Lowell street to Cedar street, paving	1,198.00	
Kenwood street, both sides, from Elm street to Summit street, paving	250.25	
Kidder avenue, in front of the estate of C. W. Lowell, paving	56.20	
Madison street, southwesterly side, from School street to Sycamore street, paving . .	186.90	
Medford street, in front of the estate of Messrs. Blaney and Robinson, paving	45.55	
Mossland street, easterly side, from Somerville avenue to about one hundred feet from Elm street, paving	121.50	
Oxford street, northeasterly side, in front of estate of Maynard and others, paving	90.90	
Pearl street, northeasterly side, from Walnut street to the James A. Litchfield estate, paving	473.35	
Pinckney street, in front of the estate of William N. Young, paving	20.50	
Rossmore street, both sides, from Somerville avenue to Washington street, paving .	510.90	
Robinson street, northerly side, from Central street to Bart- lett street, paving	243.60	
<i>Amounts carried forward</i> . .	<u>\$11,452.79</u>	<u>\$6,527.92</u>

<i>Amounts brought forward</i> .	\$11,452.79	\$6,527.92
School street, westerly side, from Highland avenue to Madison street, paving .	73.00	
St. James avenue, westerly side, from Elm street to Summer street, paving	390.10	
Stickney avenue, westerly side, from Marshall street to School street, paving	154.60	
Summit street, both sides, from Elm street to Billingham street, paving	135.10	
Washington street, southerly side, from Sanborn Field to Y. M. C. A. grounds, paving	286.65	
William street, southerly side, from Chandler street to Elm street, paving	156.35	
		<u>\$12,648.59</u>

Ordinary repairs of streets:—

Beacon street, from railroad bridge to Kent street and from Smith avenue to Cam- bridge line	2,000.23	
Cedar street, from railroad bridge to Highland avenue .	143.80	
Cross street, from Broadway to Medford street	582.60	
Frost avenue, from Somerville avenue to Tube Works .	141.13	
Mystic avenue, from Charles- town line to Austin street, and from the Medford line to Temple street	4,820.93	
<i>Amounts carried forward</i> .	<u>\$7,688.69</u>	<u>\$19,176.51</u>

<i>Amounts brought forward</i>	\$7,688.69	\$19,176.51
Pearl street	264.19	
Perkins street, from the Boston line to Franklin street	279.50	
Summer street, from Willow avenue to Davis square	616.40	
Willow avenue, from Broadway to railroad crossing	996.75	
General repairs	14,076.24	
		23,921.77
Street opening, Knowlton street at Tufts street		19.91
Resetting edgestones		531.61
Removing snow and ice and care of slippery sidewalks		2,875.05
Repairs of stone paving		191.83
Repairs of brick sidewalks		1,203.75
Cleaning streets		6,753.08
Trimming, setting and removing trees		700.05
Wakefield gravel land, taxes for 1896		14.00
Waltham gravel land, taxes for 1894, 1895 and 1896		484.21
Water used in drinking fountains		47.50
Building retaining wall, Washington street, from railroad bridge to Tufts street		317.93
Building for North street gravel land (lumber)		44.81
Superintendent's salary		1,521.39
Superintendent's team (board of)		209.83
Superintendent's telephone		2.75
One-half cost of maintenance of Middlesex avenue bridge, the other half being paid by the City of Medford		647.95
Cost to city of sidewalks, the bricks and edgestones, for which were paid by the abutters (see Table F, at end of this report)		1,461.40
Books, stationery and printing		83.65
<i>Amount carried forward</i>		\$60,208.98

<i>Amount brought forward</i>	\$60,208.98
Sundry small expenses	1,057.40
Private work, the bills for which remain un- collected	271.67
Value of materials on hand this day	1,678.00
Value of tools and personal property on hand this day:—	
Horses	\$3,150.00
Carts and implements used with horses	2,664.00
Harnesses and horse clothing	411.00
Stable utensils and property	323.70
Tools	852.30
Stone crusher and fittings	2,518.20
Steam road roller No. 1	500.00
Steam road roller No. 2	3,500.00
	<hr/>
	\$13,919.20
Less payment for steam road roller No. 2, from special appropriation for highways, "Steam Road Roller"	3,500.00
	<hr/>
	\$10,419.20
Net loss on tools, property and materials	2,500.82
	<hr/>
Total debit	\$76,136.07
	<hr/>
Amount overdrawn	\$965.09
Labor and materials have also been furnished and property sold, for which credit has been received, as follows:—	
Private parties, constructing driveways and side- walks	\$2,092.47
Public property account, setting inside edgestone around the William H. Hodgkins schoolhouse	416.39
Sidewalks account, materials and use of horses	1,700.96
	<hr/>
Total	\$4,209.82

The profit and Loss account on city teams, tools, property and materials is as follows:—

DEBIT.

Steam road roller No. 1 (depreciation)	\$1,500.00	
Tools (depreciation)	623.15	
Repairs of tools	124.43	
Stone crusher and fittings	31.33	
Repairs of steam road roller	400.28	
Holland street ledge	724.67	
Edgestone and paving stock	170.04	
Crushed stone (to which amount is charged repairs at crusher)	1,055.96	
Total		\$4,629.86

CREDIT.

Stone and gravel	\$1,151.05	
Sand	182.75	
City teams	795.24	2,129.04
Net deficit		\$2,500.82

The only charge for the use of the steam road roller working on the streets during the year is for the time of the engineer, which is at the rate of twenty dollars per week.

The price charged for placing crushed stone on the streets during the year has been at the rate of seventy-five cents for each single horse load; this price, however, does not include the teaming.

Gravel has been charged at the rate of twenty-five cents per single horse load, and sand at the rate of fifty cents per single load, exclusive of carting.

Number of loads of stone for crusher from Holland street ledge	2,832
Number of loads of stone crushed	13,958

The charges to the city teams account are as follows:—

Horses (depreciation)	\$815.00
Carts and implements used with horses (depreciation)	493.78
Repairs of same	778.78
Harnesses and horse clothing (depreciation)	14.24
Repairs of same	377.79
Stable utensils and property	84.26
Stable expenses and repairs	3,356.83
Grain and feed	2,103.93
Hay and straw	2,591.07
Horse shoeing	685.22
Horse medicine and doctoring	249.86
	<u>\$11,550.76</u>

The above statement does not include the board or use of horse used by the Superintendent of Streets, the cost of which may be found in the foregoing statement of expenditures. Each horse has been credited for each day he has worked throughout the year, at \$1.40 per day, the same as in former years.

SIDEWALKS ACCOUNT.

CREDIT.	
Appropriation	\$10,000.00
Less transfer to Highways Account	349.78
Total credit	<u>\$9,650.22</u>
DEBIT.	
Expenditures:—	
For advertising sidewalk hearing (sidewalk not constructed)	\$ 9.50
For thirty-two sidewalks, as per Table E, at the end of this report	19,281.51
	<u>\$19,291.01</u>
Less assessments and receipts	9,640.79
Cost to city	<u><u>\$9,650.22</u></u>

EDGESTONES AND PAVING STOCK.

Lineal feet of edgestones set (including 2,500 feet reset), 25,971.1; square yards of brick paving laid (including 1,000 yards relaid), 7,956.7; square yards of stone paving laid (including 1,000 yards relaid), 7,670.

PAVING OF MEDFORD STREET.

(From Somerville Avenue to the Cambridge Line.)

CREDIT.

Balance of appropriation brought forward from 1895	\$13,249.41	
Receipts:—		
From City of Cambridge, lowering manholes, and for labor and paving blocks	242.95	
	<hr/>	
	\$13,492.36	
Less amount transferred to paving Washington street (from Medford street to Joy street)	5,800.00	
	<hr/>	
Total credit		\$7,692.36

DEBIT.

Expenditures:—

To W. H. Gore & Co., paving	\$957.99	
H. Gore & Co., paving	3,623.52	
H. Gore & Co., paving (extra)	123.49	
Paving blocks	1,940.06	
Flagging	92.64	
Labor	82.75	
	<hr/>	
		\$6,820.45
Balance unexpended		<hr/> <hr/> \$871.91

PAVING OF WASHINGTON STREET.

(From Tufts street to Joy street.)

CREDIT.

Appropriation brought forward from 1895	\$3,800.00
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Receipt:—

Cash received from West End Railway Co., proportional part of paving, as per agree- ment	1,000.00
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\$4,800.00

Less transfer to City Hall improve- ment account	1,340.21
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\$3,459.79

DEBIT.

Expenditures:—

William H. Gore & Co., paving .	\$1,398.03
William H. Gore & Co., paving, extra	28.88
Paving blocks	1,536.20
Flagging	69.88
Concreting	384.90
Pipe and labor	74.63
Cement	9.30

\$3,501.82

Amount overdrawn	
----------------------------	--

\$42.03

PAVING OF WASHINGTON STREET.

(From Joy street to Medford street.)

CREDIT.

Appropriation (transfer paving of Medford street)	\$5,800.00	
Less amount transferred to City Hall improvement account	1,059.25	
	<hr/>	
Total credit		\$4,740.75

DEBIT.

Expenditures:—

H. Gore & Co., paving	\$2,124.93	
Paving blocks	2,512.56	
Granite flagging	29.76	
Labor	31.50	
	<hr/>	
		4,698.75
		<hr/>
Balance unexpended		\$42.00
		<hr/>

CITY STABLE. (Sheds.)

CREDIT.

Appropriation	\$2,000.00	
Less transfer to Highways ac- count	250.00	
	<hr/>	
Net credit		\$1,750.00

DEBIT.

Expenditures:—

For carpentering, lumber and la- bor	\$1,080.60	
Mason work	28.60	
Painting	55.52	
Hardware	26.28	
	<hr/>	
		1,191.00
		<hr/>
Balance unexpended		\$559.00
		<hr/>

HIGHWAYS.

Steam Road Roller No. 2 Account.

CREDIT.

Appropriation	\$3,500.00
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DEBIT.

Expenditures:—

Harrisburg steam road roller	\$3,500.00
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During the year ten new streets, eighteen crosswalks and ten driveways have been constructed, fifty-seven street signs erected, and one hundred and twenty-five trees set out. Sixteen thousand feet of old streets have been macadamized and rolled by the steam road roller, and twenty thousand eight hundred loads of material, consisting of hard-pan, ashes, scrapings, gravel, etc., have been utilized in filling and grading. Two thousand loads of material from the locations of the West End Street Railway Company have been used for filling Mystic avenue and Warwick and Trull streets, at no expense to the city except the teaming. There are in the city at the present time sixteen miles of accepted street which have received no attention, except to keep them in a safe and passable condition for public travel. There are thirty-six horses in use by the department. Eleven horses have been purchased during the year and eight have died.

TABLES.

Tables are furnished herewith of streets accepted, streets constructed and improved, driveways and sidewalks constructed, and crossings laid.

WILLIAM H. BERRY, Chairman.

WILLIAM P. MITCHELL, Clerk.

TABLE A.
STREETS ACCEPTED.

NAME.	FROM	To	Length in Feet
Avon	School	Central	1,360
Banks	Elm	Summer	639
Benton avenue .	Highland avenue .	Hudson	286
Burnside avenue .	Elm	Summer	720
Cambria	Central	Benton avenue .	488
Cameron avenue .	Holland	Cambridge line .	1,000
Electric avenue .	Curtis	Packard avenue .	681
Houghton	Oak	Springfield . .	204
Kidder avenue . .	Elm	Liberty avenue .	625
Lee	Medford	Richdale avenue .	385
Lowell	Highland avenue .	Albion	390
Westminister . .	Broadway	Electric avenue .	376
Wigglesworth . .	Bonair	Pearl	740
<i>Total length in feet</i>			7,894

TABLE B.
STREETS CONSTRUCTED.

Name of Street.	FROM	To	Length in Feet.
Burnside avenue .	Elm	Summer	720
Fanning avenue .	Highland avenue .	Lexington avenue	376
Hall avenue . . .	Elm	Liberty avenue .	926
Hancock	Elm	Summer	781
Kenwood	Elm	Billingham . . .	322
Kidder avenue . .	Elm	Willow avenue .	1,280
Rossmore	Somerville avenue	Washington . .	525
Summit	Elm	Billingham . . .	262
Trull	Medford	Vernon	1,050
Warwick	Cedar	Warwick avenue .	665
<i>Total length in feet</i>			6,907

TABLE C.
STREETS IMPROVED.

STREET.	FROM	To	IMPROVEMENT.	FEET.
Beacon . .	Railroad B'ge .	Kent	Macadamized	2,280
Beacon . .	Cambridge line .	Calvin	Macadamized	1,330
Cedar . . .	Railroad B'ge .	Highland ave .	Macadamized	1,930
Cross . . .	Broadway . . .	Medford . . .	Macadamized	2,680
Derby . . .	Temple	Grant	Gravelled	800
Elm	Morrison	Nathan Tufts Park	Macadamized	1,300
Frost ave. .	Somerville ave .	Tube works .	Macadamized	250
Highland ave., (N. E. side)	Central	Grove	Macadamized	5,270
Mystic ave. ,	Charlestown line	Austin	Macadamized	1,170
Mystic ave. .	Medford line . .	Temple	Macadamized	2,730
Pearl	Mt. Vernon . . .	Franklin . . .	Macadamized	950
Perkins . . .	Boston line . . .	Franklin . . .	Macadamized	1,320
Summer . . .	Willow ave. . . .	Cutter square .	Macadamized	870
Willow ave. .	Broadway	Railroad cross'g	Macadamized	1,910
<i>Total length in feet</i>				24,790

TABLE D.
DRIVEWAYS CONSTRUCTED AT EXPENSE OF ABUTTERS.

FOR.	LOCATION.
Martin J. Caples . . . .	. . . . 42 Craigie street.
Albert M. Davis . . . .	. . . . Glen street.
T. H. Edgerly. . . . .	. . . . 220 Medford street.
W. S. Glidden . . . . .	. . . . Sycamore street.
A. E. and N. J. Giroux .	. . . . 65 Pearl street.
J. L. Gilman . . . . .	. . . . Preston street.
C. A. Lowell . . . . .	. . . . 31 Gilman street.
Howard Lowell . . . . .	. . . . Gilman street.
J. P. Squire & Co. . . .	. . . . Medford street.
Alden E. Viles . . . . .	. . . . 20 Summer street.

TABLE E.

SIDEWALKS CONSTRUCTED WHERE THE EDGESTONES AND
BRICKS WERE FURNISHED OR PAID FOR BY
THE ABUTTERS.

FOR	STREET,	FEET OF EDGE- STONES.	YARDS OF BRICKS.
J. F. Berry	Central	87.5	
Blaney and Robinson . . .	Medford	136.1	136.9
George A. Bruce	Oxford	50	
Herman Barker	Bond and Heath		105.1
Henry B. Champion	Highland ave.	40	29.4
Fred W. Coles	Auburn ave.		48
Dr. A. H. Carvill	Highland ave.		160.6
Lucretia A. Carr	Chandler		37.6
Francis H. Connor	92 Flint		28
Thomas A. Dewire	Beacon		128
Robert Duddy	Bond		34.4
Abram P. Downs	Bond	82.1	62
Walter A. Eames	64 Chandler		33.3
Josiah C. Fluker	Highland ave.	42	30.3
Willard L. Glidden	Highland ave.	67.6	39.9
William H. Hodgkins			
School Lot	Holland	576.2	
C. W. Lowell	Kidder ave.	118.5	
S. & H. Maloon	Highland ave.	40	29.4
J. F. Merry	Oxford	37.7	
George O. Maynard	Oxford	131	
J. L. Nelson	Highland ave.	95.3	71.9
New England Mutual Life			
Insurance Co.	Central	189.8	123.5
James H. Piper	Highland ave.	43.4	31.7
William B. Pazarina	54 Chandler		38.8
Wilson C. Rich	Auburn ave.	62.3	36.4
James W. Rich	Belmont	103.9	66.3
George O. Servis	Oxford	33.3	
John J. Stockdon	Auburn ave.	53.6	29.7
James H. Steele	Auburn ave.	65.5	35.5
Henry C. Smalley	Bond	43.3	34
J. P. Snow	58 Chandler		33.3
Sophronia M. Tower			
Francis W. Hunt and	Highland ave.	66	38.5
Dudley F. Hunt }			
Eliza A. Trickey	Auburn ave.	53.5	35.1
James Tucker	Auburn ave.	88.9	
R. K. Wakefield	Highland ave.	42	30.4
John E. Woodside	Belmont	45	30.5
Rufus R. Wade	44 Chandler		46.8
William N. Young	Pinckney	156.3	
		2,550.8	1,585.3

TABLE F.

SIDEWALKS CONSTRUCTED WHERE THE MATERIALS AND LABOR WERE FURNISHED BY THE CITY
AND ONE-HALF THE COST WAS ASSESSED UPON THE ABUTTING ESTATES.

STREET.	SIDE.	FROM	TO	FEET OF EDGE-STONES.	YARDS OF BRICKS.	COST.
Adams	Easterly	Broadway	Medford	866.1	576.2	\$540.48
Bartlett	Westerly	Vernon	Medford	381	.	589.43
Belmont	Easterly	Summer	Nor'ly estate of J. K. James	1,185.5	272	514.08
Beacon	Northerly	Miller	Fitchburg R. R. Bridge	586.5	.	779.61
Beacon	Northerly	Washington	Vine	678.4	.	398.06
Broadway	Northeasterly	Estate No. 257	Estate No. 303	237.6	.	546.62
Broadway	Southwesterly	Sycamore	Adams	.	891.2	1,059.52
Cherry	Easterly	Sartwell ave	Summer	95.2	432.1	496.25
Central	Westerly	Gibbens	Estate John Haigh	836	285.6	333.29
Derby	Northerly	Temple	Grant	1,066.7	.	618.76
Elm	Easterly	Morrison	Nathan Tufts Park	896.5	.	798.14
Elm	Northerly	Cherry	Willow ave	628.6	.	701.14
Franklin	Easterly	Franklin ave.	Washington	495.4	.	446.57
Highland ave.	Northerly	Grove	West	4,350.7	.	324.14
Highland ave.	Northerly	West	Central	.	.	2,737.59
Highland ave.	Northerly	Medford	Walnut	1,400.8	525.7	578.09
Hudson	Southerly	Lowell	Cedar	673.5	.	872.20
Kenwood	Both	Elm	Billingham	904.8	.	577.50
Madison	Southerly	School	Sycamore	.	.	641.86
Medford	Southwesterly	Central	Bartlett	259.1	572.6	540.95
Mossland	Easterly	Somerville ave.	100 feet from Elm	.	189.4	311.20
Orchard	Southerly	Day	Chester	492.3	241.6	269.00
Pearl	Northeasterly	Walnut	Litchfield estate	.	.	393.59
Pearl	Northeasterly	Cross	Walnut	.	1,220.8	1,154.35

TABLE F—Continued.

STREET.	SIDE.	FROM	TO	FEET OF EDGE STONES.	YARDS OF BRICKS.	COST.
Rossmore	Both	Somerville ave.	Washington	1,053.4	. . .	\$659.46
Robinson	Northerly	Central	Bartlett	636.6	. . .	461.74
School	Northwesterly	Highland ave.	Madison	258	. . .	189.36
Stickney ave.	Westerly	Marshall	School	452.3	. . .	353.07
Summer	Southerly	Cherry	Ashland	. . .	192.2	200.20
Summit	Both	Elm	Billingham	509.7	. . .	446.36
St. James ave.	Westerly	Elm	Summer	518.5	. . .	361.89
Washington	Southerly	Sanborn field.	Y. M. C. A. Grounds	545.3	. . .	387.01
				20,008.5	5,399.4	\$19,281.51

STREET CROSSINGS CONSTRUCTED.

Beacon street, across end of Buckingham street.

Broadway, northeasterly side, across Cross street.

Broadway, across end of Grant street.

Broadway, from northeasterly side, near northwesterly side of Grant street, to street railway.

Broadway, across same, near northwesterly side of Walnut street.

Central street, northwesterly side, across end of Cleveland street.

Elm street, across same, in line with sidewalk on southeasterly side of Davenport street.

Elm street, across same, in front of Post Office, near southwesterly side of Davis square.

Highland avenue, across same, in line with sidewalk on northwesterly side of Cedar street.

Highland avenue, across same, in line with sidewalk on southeasterly side of Cherry street.

Highland avenue, across same, in front of Highland Congregational Church.

Highland avenue, across same, near northwesterly side of Trull lane.

Holland street, across same, in front of William H. Hodgkins school.

Laurel street, northwesterly side, across end of Laurel avenue.

Medford street, across same, in line with sidewalk on northeasterly side of Somerville avenue.

Medford street, across same, at northwesterly side of Trull street.

Mystic avenue, across same, near southeasterly side of North Union street.

School street, northwesterly side, across end of Berkeley street.

Somerville avenue, across same, in line with sidewalk on southeasterly side of Medford street.

Walnut street, northwesterly side, across end of Grand View avenue.

Washington street, northerly side, across end of Shawmut street.

Washington street, northerly side, across end of Tufts street.

Washington street, northerly side, across end of Washington avenue.

REPORT
OF THE
COMMITTEE ON SEWERS.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, February 24, 1897.

Referred to the Committee on Printing, to be printed in the Annual Reports. Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, February 24, 1897.

Referred to the Committee on Printing, to be printed in the Annual Reports, in concurrence.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

IN COMMITTEE ON SEWERS, January 1, 1897.

TO THE BOARD OF ALDERMEN OF SOMERVILLE :—

The committee on Sewers presents the following report for the year ending December 31, 1896:—

MAINTENANCE ACCOUNT.

CREDIT.

Appropriation	\$7,000.00
Transfer from Reduction of Funded Debt account	1,500.00

Receipts and Credits:—

For fees for entering estates into sewers	\$ 74.00	
Reconstructing Oak street sewer	71.01	
Repairing sewer, Dresden Circle	4.75	
Changing line of manholes (W. E. St. Ry. Co.)	148.89	
Rebuilding catch-basin (do.)	41.86	
Dividend on private sewer built for Timothy Tufts in 1888	7.80	
		348.31
Value of tools and property on hand January 1, 1896		786.80
Value of materials on hand January 1, 1896 .		63.46
Total credit		\$9,698.57

Amount brought forward \$9,698.57

DEBIT.

Expenditures:—

For maintenance of sewers, including repairs, cleaning, etc., of sewers and man-holes	\$2,190.41	
Maintenance of catch-basins	2,841.44	
Inspection of house drains	294.10	
Franklin O. Reed, damage to land	2,212.50	
Franklin O. Reed, rent of water course	225.00	
Books, stationery and printing	17.00	
Arranging tools and property	16.62	
Repairs of tools and property	24.59	
Unpaid bills of 1895	165.37	
Sundry expenses	23.12	
Depreciation in value of tools and property . . . . .	.25	
Value of materials on hand December 31, 1896	54.22	
Value of tools and property on hand December 31, 1896, (including purchases during the year, \$212.36)	973.05	
Total debit		\$9,037.67
Balance unexpended		\$660.90

CONSTRUCTION ACCOUNT.

CREDIT.

Unexpended balance of 1895	\$41,791.10
Amount transferred	50,000.00

Receipts and credits:—

For catch-basin curbs in side-walks, received credit from Sidewalks and Highways accounts	\$ 56.95	
Fee for drainage of estate into Broadway sewer	5.85	
Fee for drainage of estate into Broadway sewer, (Cedar street, easterly)	13.67	
Fee for drainage of estate into Russell street sewer	61.41	
Construction of sewer in Cottage Circle	24.92	
Construction of private drain	80.07	
Extra work on Tannery Brook Drain, (W. E. St. Ry. Co.)	137.50	
		380.37
Value of materials on hand January 1, 1896		1,468.08
Unpaid bills of 1896		2,071.99
Total credit		\$95,711.54

DEBIT.

Expenditures:—

For thirty-one sewers constructed and partially constructed during the year, (less \$72.62 paid in 1895)	\$41,956.56	
Less assessments	22,108.31	
<i>Amounts carried forward</i>	\$19,848.25	\$95,711.54

<i>Amounts brought forward</i> .	\$19,848.25	\$95,711.54
Abatements of sewer assessments	367.34	
For twenty-five catch-basins (average cost \$67.45) .	1,686.19	
Metropolitan sewer connection, Mystic avenue at Winthrop avenue	4,548.50	
Metropolitan sewer connection, Waverly street	2,411.66	
Metropolitan sewer connections, Somerville avenue at Poplar street, (including packing houses connection)	6,451.85	
Packing house connections with city sewers and Metropolitan sewer,—		
John P. Squire & Co.	590.59	
North Packing and Provision Co.	912.30	
New England Dressed Meat & Wool Co.	1,098.64	
Outlet for sewers, draining through the City of Medford	1,124.37	
Soundings for packing house outlet for salt water	363.89	
Construction of storm drain in the Tannery Brook Valley	24,336.05	
Construction of surface water drain in private lands, Princeton, Alpine and Albion streets, from the B. & L. R. R. to Hudson street	1,390.86	
<i>Amounts carried forward</i> .	\$65,130.49	\$95,711.54

<i>Amounts brought forward</i>	\$65,130.49	\$95,711.54
Construction of sewer in Cottage Circle for T. C. Connor	24.92	
Maurice Buttimer, payment on account of extension of sewer	93.87	
Damages to land of Joseph S. Stearns, by reason of sewer and surface water drain	620.00	
Sundry expenses	86.25	
Books, stationery and printing	26.00	
Unpaid bills of 1895	\$350.36	
Repairs of tools and property	7.70	
Tools and property	392.10	
Increase and depreciation of tools, property and materials	552.99	
Value of materials on hand December 31, 1896	617.03	
Total debit		67,901.71
Balance unexpended		<u>\$27,809.83</u>

Labor and materials have also been furnished, and credit has been received for the same, as follows:—

School-house, Ward One account, labor and inspection on excavation for foundation	\$20.00
Sewers, Maintenance account, brick, sand and cement	28.60
Total	<u>\$48.60</u>

A complete and extensive statement of the work of this department during the past year will be found in the report of the City Engineer.

For the Committee on Sewers,

MELVILLE D. JONES, Chairman.

WILLIAM P. MITCHELL, Clerk.

REPORT
OF THE
CITY ENGINEER.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, February 24, 1897.

Referred to Committee on Printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk*.

IN COMMON COUNCIL, February 24, 1897.

Referred to Committee on Printing, to be printed in the annual reports,
in concurrence.

CHAS. S. ROBERTSON, *Clerk*.

CITY OF SOMERVILLE.

OFFICE OF CITY ENGINEER, }
CITY HALL, January 25, 1897. }

To His Honor the Mayor, and the City Council of the City of
Somerville:—

Gentlemen,—Herewith I respectfully submit a report of the work done and expenses incurred, for the year ending December 31, 1896, in the City Engineer's Department; including the superintendence of Sewers and Public Parks.

ENGINEERING DEPARTMENT.

During the past year Mr. George A. Kimball has been employed as consulting engineer on various works of improvement in the city; his advice being especially valuable in the re-designing of the city's old sewerage system.

Twenty-one assistants have been employed in the Engineering Department, eight permanently and the others as additional work required.

The cost of maintaining the department has been as follows:—

Appropriation	\$10,000.00
Salary of city engineer and consulting engineer (including maintenance of team)	\$3,307.37
Salaries of assistants	5,307.81
Furniture	85.00
One new engineer's level	100.00
Repairs of instruments	43.02
Tapes, plumbs, level rods and general supplies	150.73
Draughting instruments, materials and stationery	219.31
Line and grade stakes and spikes	32.68
Car fares, expressing and incidental expenses	174.15
Total expenditure	<u>\$9,420.07</u>
Unexpended balance	\$579.93

CLASSIFICATION OF EXPENDITURES, ASSISTANTS' SALARIES.

Sewers—comprising surveys, profiles, lines, grades, titles, plans and assessments	\$3,096.65
Highways—comprising plans, profiles, titles, estimates, lines and grades	427.09
Edgestone—comprising profiles, lines, grades, measurements, titles, costs and assessments	373.82
Water Works—comprising lines, locations of mains and services	122.47
Public Grounds—comprising surveys, plans, profiles, grades and estimates	40.98
Public Buildings—comprising surveys, lines, grades and estimates	105.67
Street Numbering—comprising locations of buildings, plans and affixing street numbers on houses	132.24
<i>Amount carried forward,</i>	<u>\$4,298.92</u>

<i>Amount brought forward</i>	\$4,298.92
West End Street Railway Co.—comprising grades, plans and profiles	60.06
Middlesex Registry—comprising copying of plans and abstracts from deeds filed	61.31
Miscellaneous Work — comprising indexing, records of all locations, miscellaneous lines, grades, plans and estimates	589.38
City Survey	121.38
City Map	176.76
Total	<hr/> \$5,307.81

SEWERS.

TANNERY BROOK DRAINAGE SYSTEM.

The past year a storm relief drain, trunk sewers and laterals have been constructed in the Tannery Brook Valley, West Somerville.

This work has been contemplated for a number of years, but not until recently have all obstacles been overcome sufficiently to enable the work of construction to proceed.

An act allowing the City of Somerville to drain a portion of her territory in West Somerville through the City of Cambridge was passed by the Massachusetts Legislature, April 4, 1896, and satisfactory agreements between the two cities were concluded for the construction and maintenance of that portion of the structure to be built within the limits of the City of Cambridge.

Two objects were aimed at in the designing of this system:—One to provide for the storm water drainage and sewerage of the district through which the line of work is carried, lying partly in Somerville and partly in Cambridge, embracing a total area of about 350 acres.

The other to provide a means of relieving the West Somerville district of the existing sewerage system, of the excess of rainfall now discharged into it.

Under former conditions, the sewers in the vicinity of Davis Square were overcharged whenever heavy rains prevailed, and complaints of flooded cellars had long been a matter of regular occurrence.

Apart from these merely local conditions, affecting the upper end of our sewer system, it was likewise desirable to relieve also the lower sections of the main sewerage system of the city by some convenient and practical diversion of the storm water flow, in preference to any expensive remodelling and reconstructing of the present sewers; with these conditions in view the Tannery Brook system was designed.

The natural drainage outlet of the district is the Tannery Brook, discharging into Alewife Brook at a point about nineteen hundred feet northwest of the Cambridge-Somerville line.

The northwesterly side of Clarendon Avenue, in Cambridge, was selected on this stream as the point of discharge for the proposed storm drainage conduit, and this was the reason for obtaining a special act of the Legislature authorizing the work as mentioned previously.

The dimensions of the storm water drain were based on the heaviest rainfall, assumed to fall upon the total area of acres included in the natural drainage district, and from the existing sewers from which the storm water was to be diverted.

As the drain would pass, for a considerable portion of its length, through the low lying land, not affording a sufficient depth of cover for an ordinary circular structure of the requisite capacity, a wide and shallow construction was adopted with a curved bottom and vertical sides, supporting steel I beams, between which short spans of brick work are built, forming the cover or roof of the structure; over the whole of this is a layer of concrete, joining the side walls which are also of concrete, with the exception of three hundred and sixty-five feet in length at the outlet which are constructed of brick and rubble stone masonry.

The storm drain at its outlet is seven feet two inches wide and four feet high, inside; the width is gradually reduced until at Davis Square it is four feet four inches, the height being four feet throughout.

Special connections have been left at Cameron Avenue and Gorham Street for the purpose of diverting storm water from the Holland Street sewer in the future; and an overflow connection between the present main sewer in Davis Square and this new storm conduit has been constructed.

Where the route of the storm drain passes Dover and Day Streets, in Davis Square, the old sewers in these streets are carried over the roof of the drain through twenty-inch cast-iron pipes.

Much attention has been devoted to the inside lining of the drain, which is of Portland cement plaster, one inch in thickness on the bottom and one half inch on the side walls, worked to a very smooth surface so as to facilitate the flow and prevent the formation of deposits.

Parallel to the storm drain, pipe sewers, varying in size from twelve inches to eight inches in diameter, are laid to provide for the ordinary house sewage of the Tannery Brook District, which discharge into the Metropolitan sewer through Cambridge.

Lateral sewers have also been constructed in all the intersecting streets where the trunk line passes, thus giving complete drainage to a section heretofore unable to be sewered.

The contract for the construction of the storm water channel and trunk sewers was awarded the A. W. Bryne Construction Company at the following prices:—

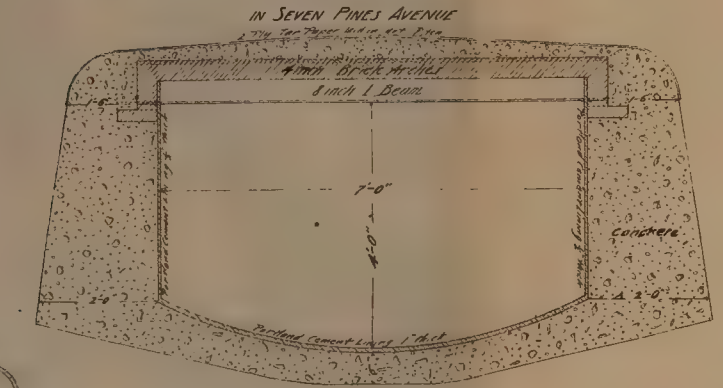
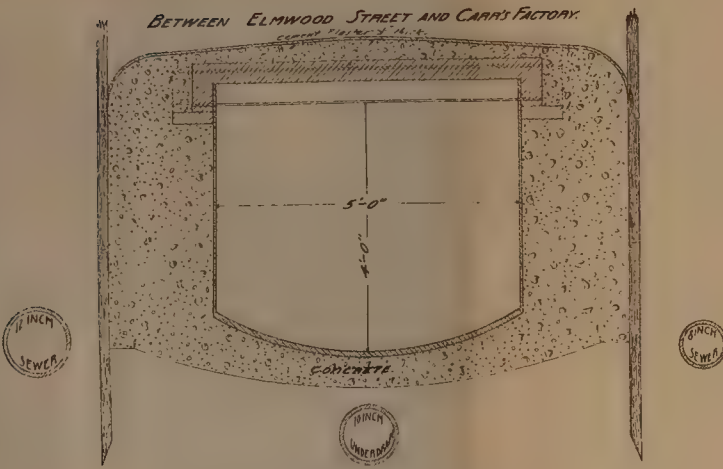
Excavation (including drain and pipe sewers)	\$1.50	per lin. ft.
Laying 6 in., 8 in., 10 in., 12 in. pipe sewer	.50	“ “ “
Laying underdrain	.15	“ “ “
American cement concrete	4.50	“ cu. yd.
Portland cement concrete	6.00	“ “ “
Brick masonry	11.00	“ “ “
Rubble stone masonry	4.50	“ “ “
Portland cement lining	.50	“ sq. “

Work was commenced the first of July, 1896, and continued to completion in December.

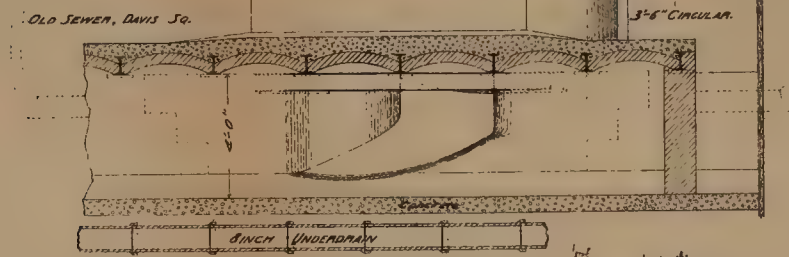
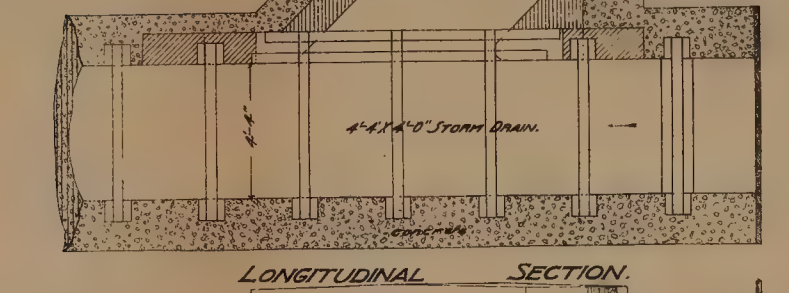
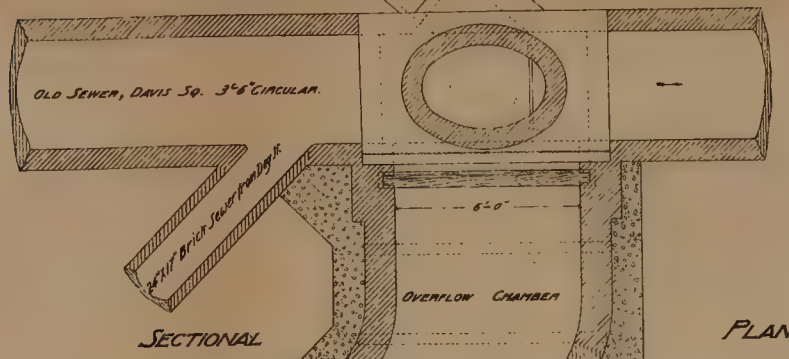
The total cost of constructing three thousand one hundred and forty-four feet of the storm water conduit, with overflow connections (land damage excepted), was \$31,942.76 and in conjunction with the storm drain three thousand nine hundred and seventy-six and four-tenths feet of trunk sewers were constructed at a cost of \$4,706.70.

The accompanying cuts show some details of construction and views on the line of work during construction.

TYPICAL CROSS SECTIONS OF STORM DRAIN AND SEWERS.

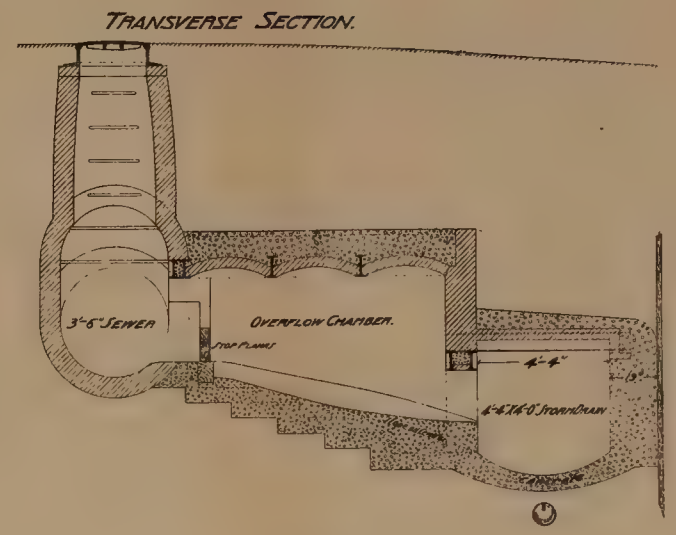


DETAIL OF OVERFLOW CONNECTION AT DAY ST.



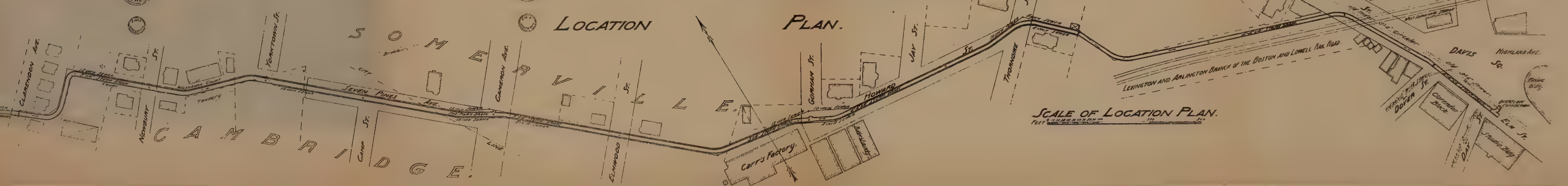
CITY OF Somerville. PLAN AND SECTIONS SHOWING TANNERY BROOK VALLEY Storm Drain and Sewers. Dec. 31, 1896.

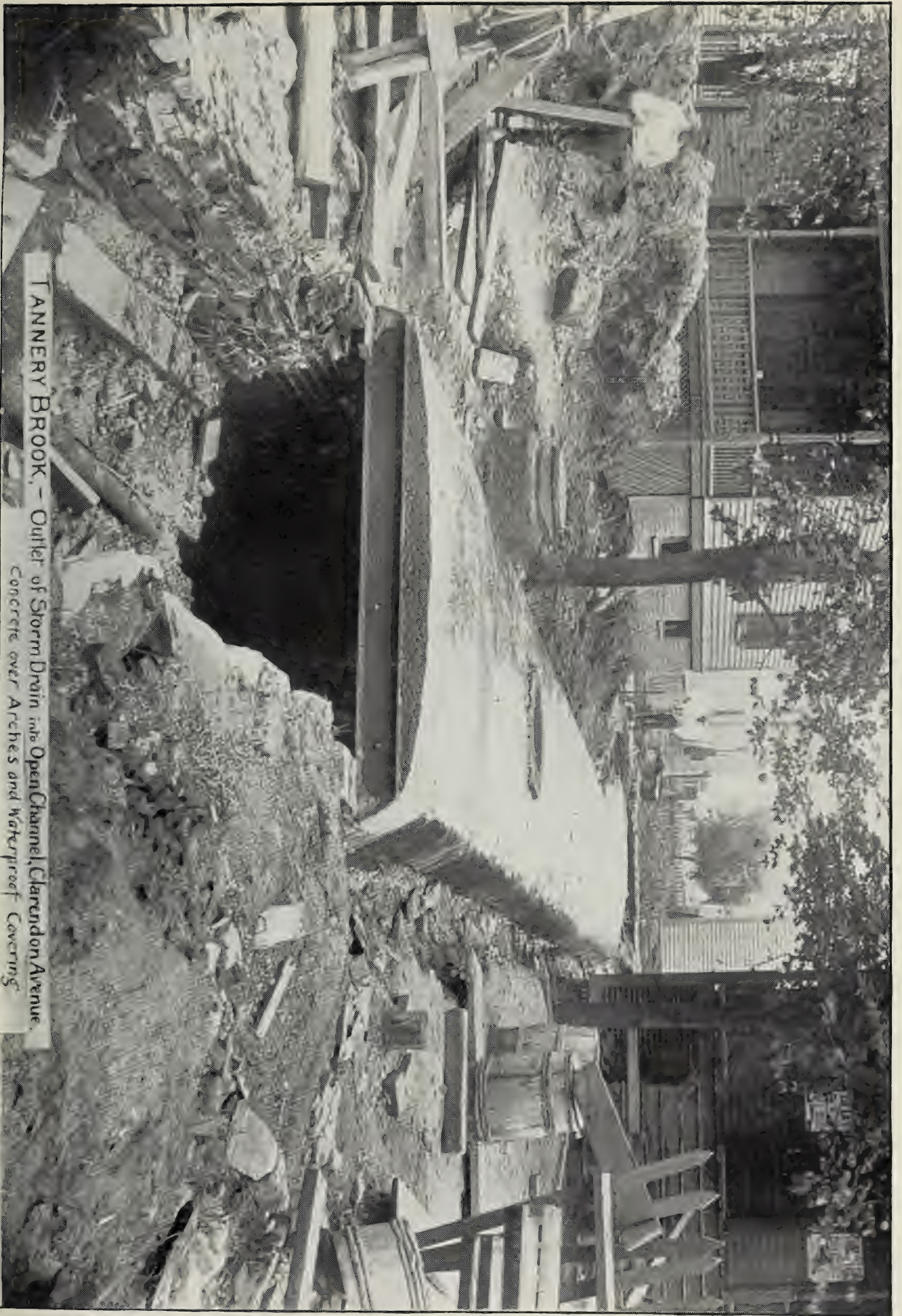
Ernest W. Bailey.
City Engineer.



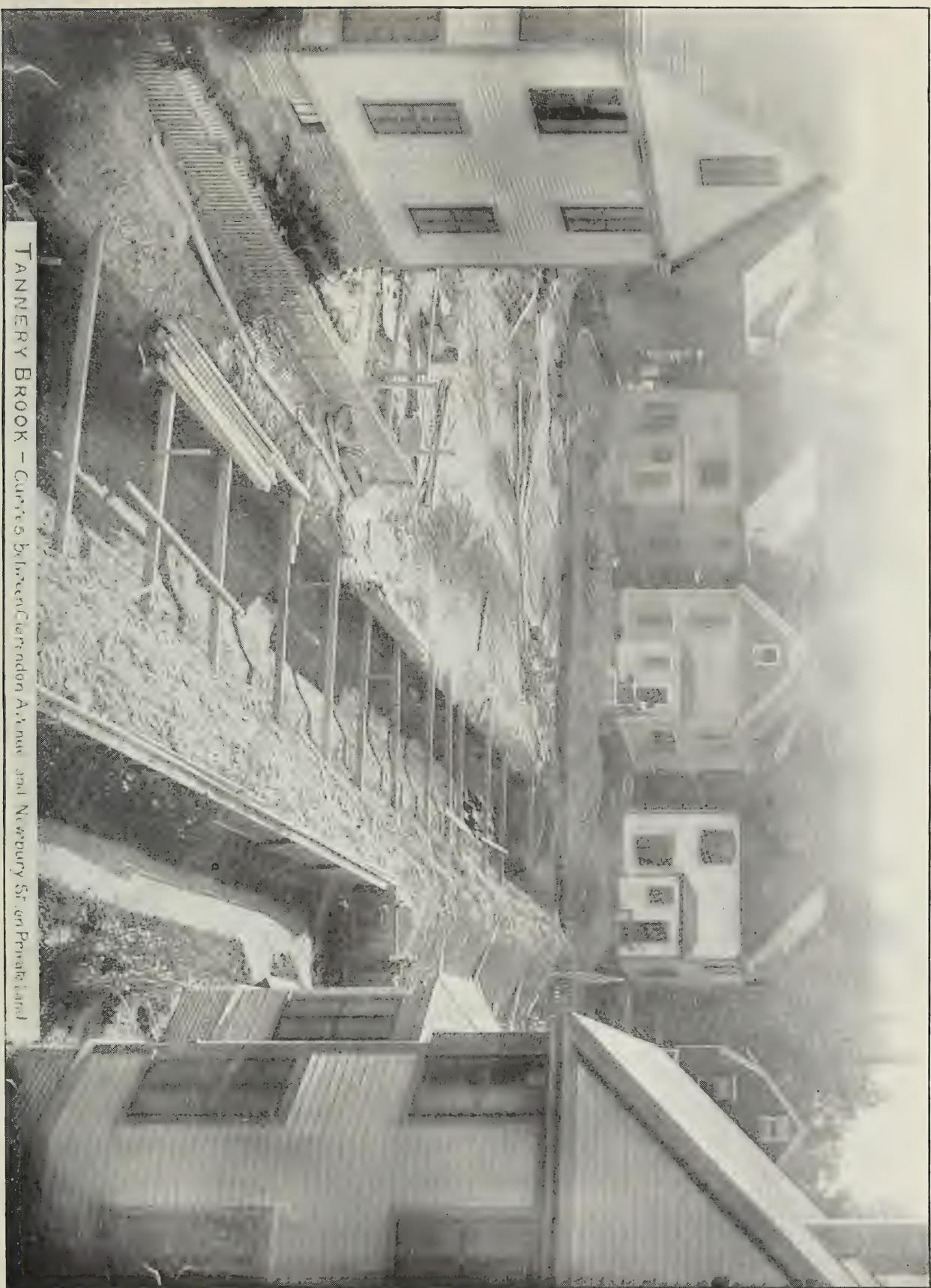
LOCATION

PLAN.

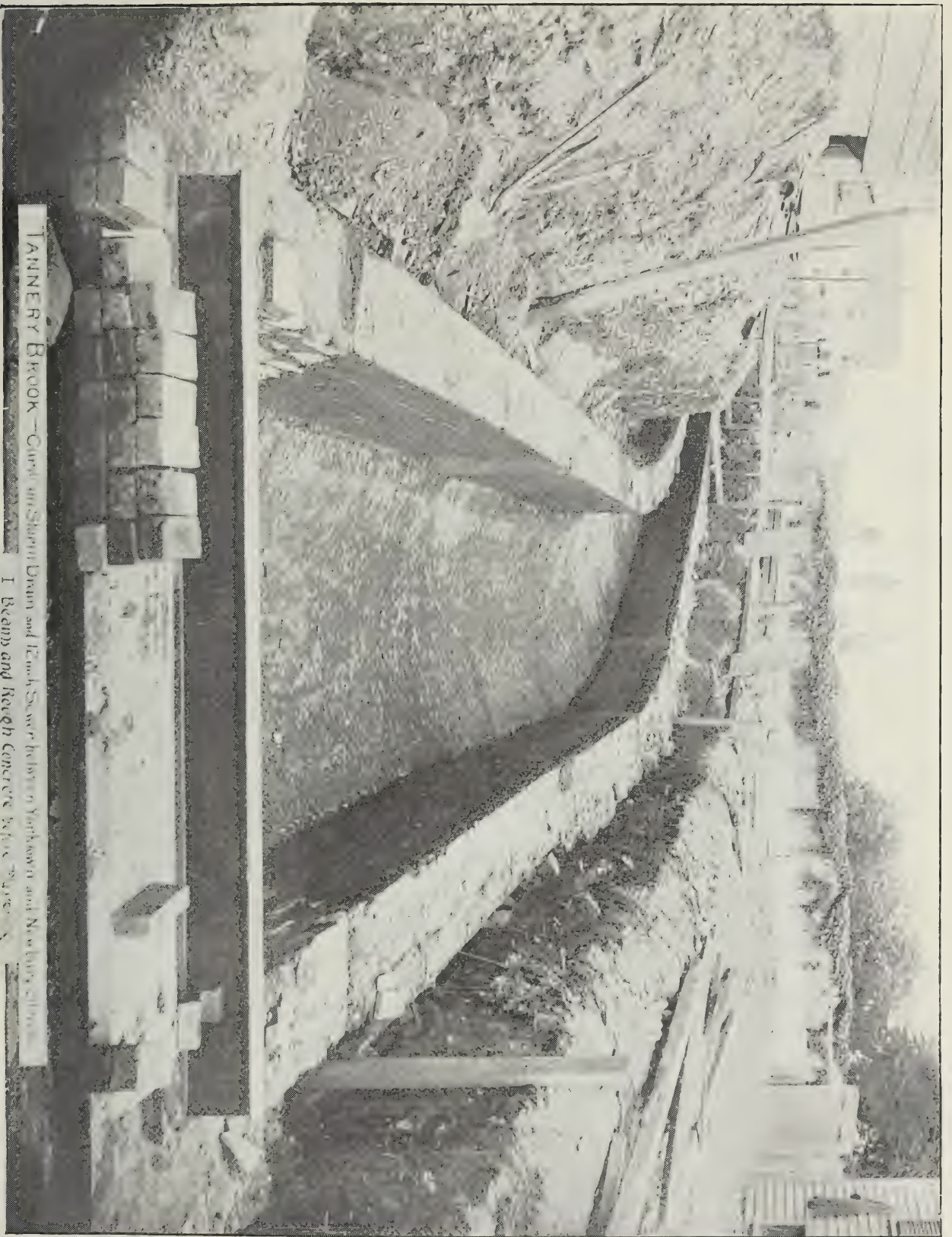




TANNERY BROOK. - Outlet of Storm Drain into Open Channel, Clarendon Avenue.
Concrete over Arches and Waterproof Covering.



TANNERY BROOK - Curried by Irving Currier and Newbury St. on Private Land



TANNERY BROOK - Canal and Sluice Drain and Leach Sewer below in Yorktown and Newbury, 1870.

I Beams and Rough Concrete before 1870.



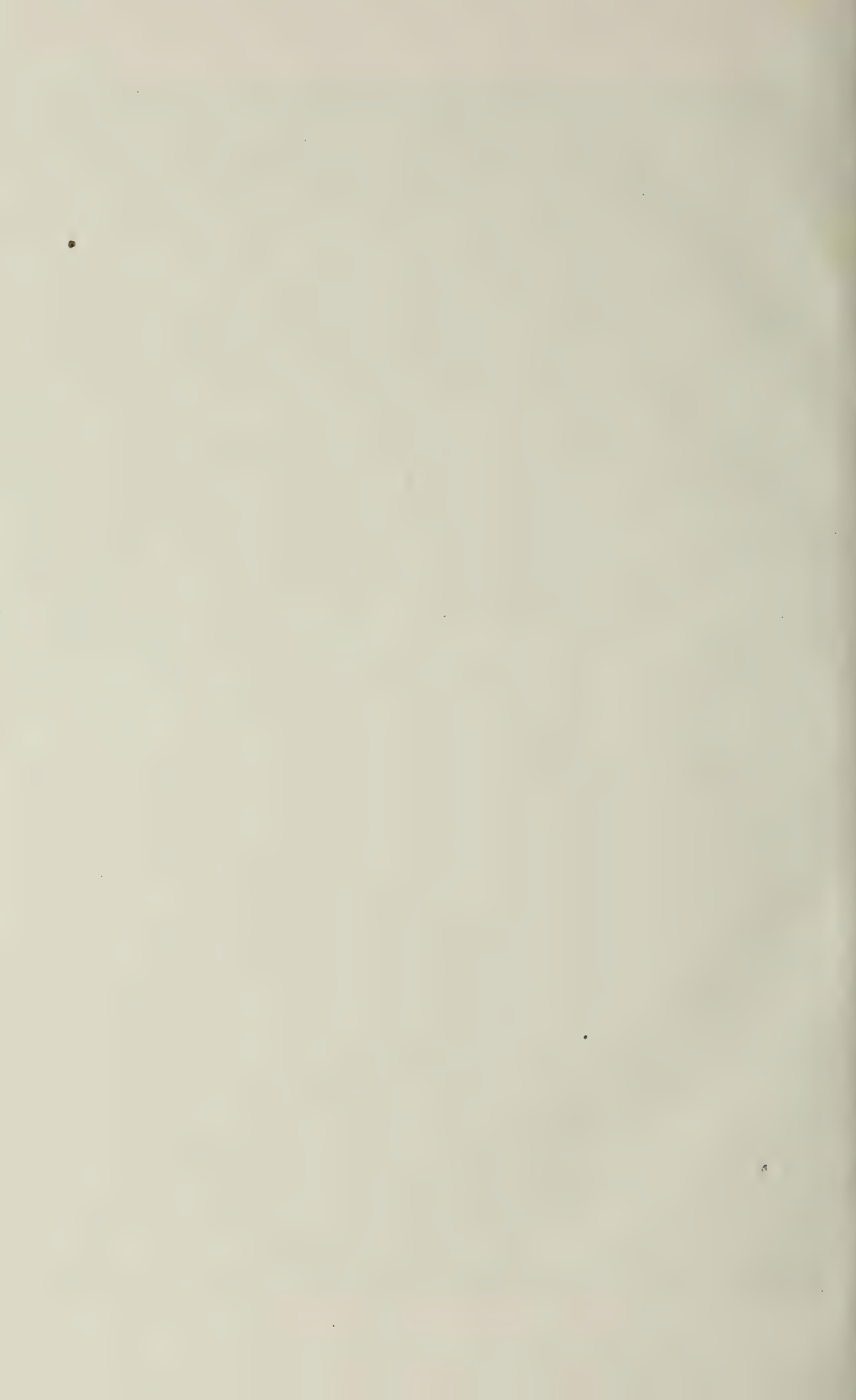
TANNERY BROOK.—Burlington Falls, and Cannery Avenue on Right End



TANNERY BROOK.—Between Elmwood St and Cameron Ave, on Private Land.



TANNERY BROOK - Excavating Machine at upper end of work, Davis Square.





INSIDE VIEW COMPLETED STORM DRAIN AT CAMERON AVE. SIZE, 7 x 4.



INSIDE VIEW COMPLETED STORM DRAIN AT ELMWOOD ST. SIZE, 5 x 4.

Geo. H. Walker & Co., Boston.

METROPOLITAN SEWER CONNECTIONS IN SOMERVILLE.

The whole sewerage system of Somerville is emptying into the Metropolitan, or State sewer, with the exception of a very small area on the easterly slope of Mount Benedict, which has its outlet at North Union Street.

During the past year connections have been made at the junction of Mystic Avenue and Moreland Street, at the junction of Mystic and Winthrop Avenues, at the junction of Waverly and Roland Streets and at the junction of Poplar Street and Somerville Avenue; through these four connections nearly the whole sewage of the city passes and after reaching the Metropolitan sewer is pumped, or raised, at three pumping stations, eventually finding its outlet at the easterly extremity of Deer Island into the Atlantic Ocean.

All of the connections in design and construction are similar, being composed of a "regulator," or shut-off chamber, built of brick, in which the machinery is located and works automatically according to the height of flow in the Metropolitan sewer, and a "sump," or sand and dirt-catching manhole built in connection with the old sewers.

Also a double set of gates is constructed at all tide water overflows to prevent water from the rivers entering the Metropolitan sewer.

As the Metropolitan sewer was not designed to take storm water, whenever a storm occurs a gate in the regulator chamber closes and the sewage, diluted with storm water, is discharged through the old outlets into the rivers.

All work was done by day labor by the sewer department on connections made with the Metropolitan sewer during the past year, except the one connection at Mystic Avenue and Moreland Street.

Construction has been necessarily slow and expensive on account of encountering a great amount of ground and tide water, old foundations, water pipes, sewers, street railway tracks, etc.

MYSTIC AVENUE AND MORELAND STREET CONNECTION.

This connection with the Metropolitan sewer is on Mystic Avenue, about four hundred and fifty feet from the Medford-Somerville boundary line; it gives house drainage (surface and roof water being excluded) for an area of about forty-eight acres on the northerly slope of Winter Hill adjacent to the Medford city line, seven acres being within the City of Medford.

Work was done by contract in conjunction with the construction of the sewer main leading to this connection; the contract having been awarded during the latter part of the year 1895, but not completed until March, 1896.

January 1, 1897, sixty-six hundredths of a mile of sewers, taking the sewage of sixty-five buildings, was discharging through this connection into the Metropolitan sewer.

MYSTIC AVENUE AND WINTHROP AVENUE CONNECTION.

The sewage from the Winter Hill and East Somerville Districts, comprising an area of about four hundred acres, is discharged into the Metropolitan sewer through a connection made at the junction of Mystic Avenue and Winthrop Avenue.

Work was commenced on the construction of this connection April 13, 1896, and completed July 5, 1896, the total cost of the structure amounting to \$4,548.50.

To complete this connection an eighteen inch pipe sewer, laid in concrete, was constructed on Mystic Avenue from the "sump manhole" at Winthrop Avenue to the old sewer at Wheatland Street where brick chambers were built in which were placed tide gates to prevent the Mystic River from flowing back into the Metropolitan sewer.

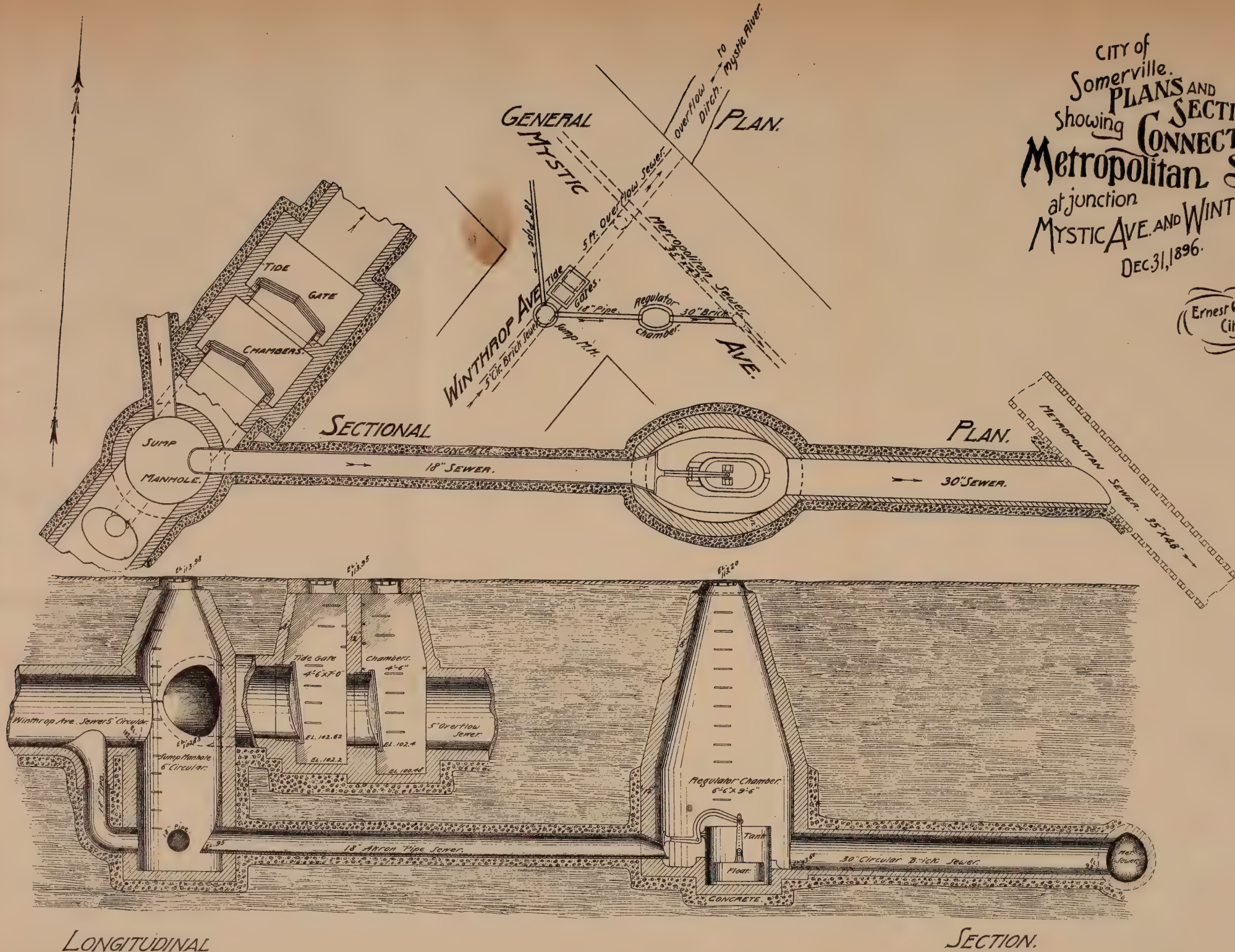
At Wheatland Street and Chauncey Avenue the old sewers, thirty inch and twelve inch respectively, are connected with this new sewer, which discharges into the Metropolitan through the connection previously described.

January 1, 1897, fourteen and eighty-six hundredths miles of sewers, taking the sewage of two thousand six hundred and forty buildings, were discharging through this connection.

The accompanying cut shows some details of construction and machinery required.

CITY of
Somerville.
PLANS AND
showing SECTIONS
CONNECTION with
Metropolitan Sewer
at junction
MYSTIC AVE. AND WINTHROP AVE.
DEC. 31, 1896.

(Ernest W. Bailey,
City Engineer.)

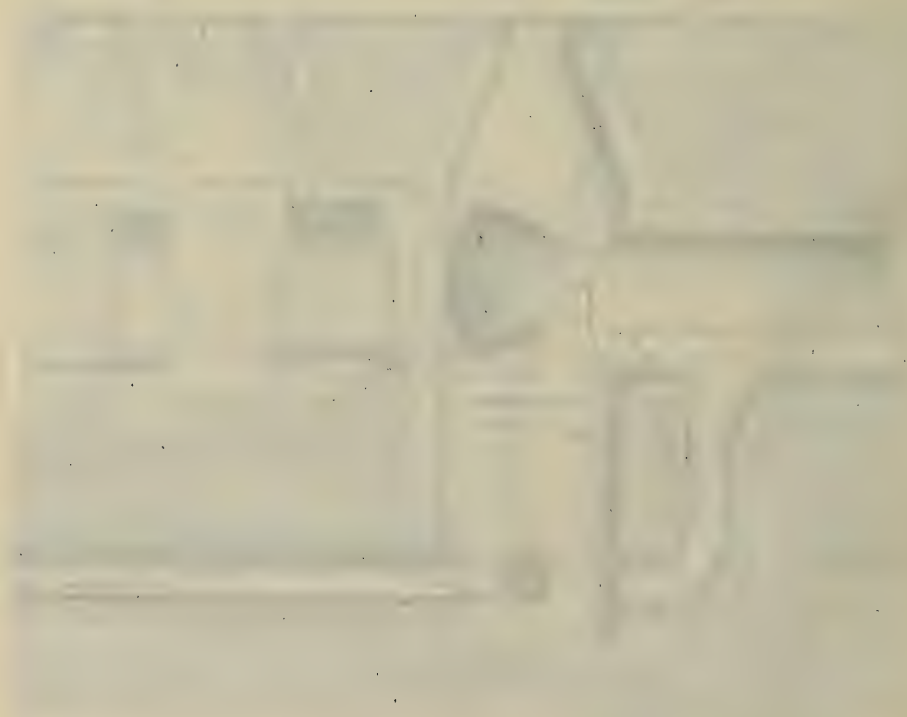


LONGITUDINAL

SECTION.

400
13
24

1/2



WAVERLY STREET CONNECTION.

This connection with the Metropolitan sewer is made near the Charlestown line at the junction of Waverly Street and Roland Street (extended) and takes the sewage from the southeasterly section of East Somerville, comprising an area of about seventy-five acres.

A set of tide gates was built in the overflow channel of this connection.

Work was commenced on the construction of this connection July 5, 1896, and completed August 29, 1896, the total cost amounting to \$2,411.66.

January 1, 1897, three and seven hundredths miles of sewers, taking the sewage of five hundred and fifty-nine buildings, were discharging through this connection into the Metropolitan sewer.

SOMERVILLE AVENUE CONNECTION.

This connection with the Metropolitan sewer is made at Poplar Street where the "State sewer" crosses Somerville Avenue, and takes the sewage of all the remaining sections of the city, not drained by the three connections previously described, excepting an area of about eighty-two acres in North Somerville draining into Medford.

Sewage from an area of eleven hundred and sixty-five acres discharges at this point. The tide gates on the overflow for this connection are located in the old sewer where it has its outlet at Bridge Street into the Charles River, Cambridge.

In conjunction with the city's connection there was also constructed at this point a separate connection with the Metropolitan sewer, through which all the drainage from the packing houses passes independently.

This connection is not shut off in times of storm, but always has a free outlet for the drainage from the slaughtering houses.

Work was commenced on these connections September 28, 1896, and completed December 15, 1896, the total cost amounting to \$6,451.85.

January 1, 1897, forty-nine and one-half miles of sewers, taking the sewage of seven thousand and one hundred buildings, were discharging into the Metropolitan sewer at this point.

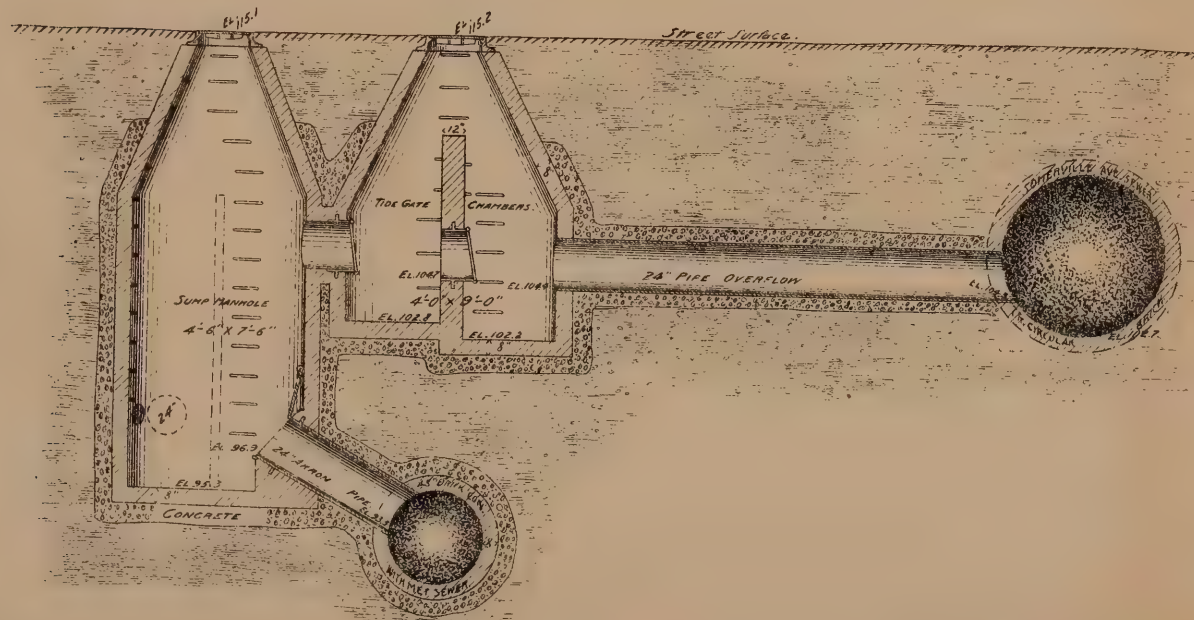
The accompanying cuts show some details of both connections.



City of Somerville.
PLANS AND SECTIONS
 showing **CONNECTIONS** with
METROPOLITAN SEWER
 at junction
SOMERVILLE AVE. AND POPLAR ST.

Sheet 1.
PLAN AND SECTION of
Separate Connection
 FOR
Packing Houses.
 Dec. 31, 1896.

Ernest W. Bailey
 City Engineer.



PACKING HOUSES' DRAINAGE. CONNECTION WITH CITY
SEWERS.

The City of Somerville, through its solicitor, different sewer committee and engineers, has, for a number of years past, been attempting to have the enormous quantities of salt and waste water discharging into her sewers by the three packing-house companies, North's, Squire's and the New England Dressed Meat and Wool Corporations, removed, but not until about the middle of the past year was anything definite accomplished.

In September an agreement was signed between the three packing-houses and the city, whereby this great quantity of waste water, together with the most polluted of sewage, in fact, practically everything discharging into Somerville's sewers, with the exception of storm water, from these establishments, should be removed and conducted directly into the Metropolitan sewer by a separate channel and connection, thus relieving our sewers of a large flow, which will increase their capacity just so much in storms, and have forever taken care of the foulest of sewage, the stench from which has caused many complaints in the past to the city, by the discharging of this objectionable matter at low tides in Cambridge.

The City of Somerville assumed the cost of making all necessary changes in the drainage systems of these three packing-house companies for conducting away sewage, roof and surface water; on the other hand the packing-house companies assumed the expense of taking care of all salt and waste water.

A sewer has been constructed on the southerly side of Somerville Avenue, between Poplar Street and a point about one hundred feet easterly from the Fitchburg Railroad crossing, having its outlet at the Metropolitan sewer, through the separate connection before referred to.

This is a pipe sewer, partly of twenty inches and partly of eighteen inches in diameter, with the sides and top encased in concrete to give it additional strength; under the Fitchburg Rail-

road tracks the sewer was laid in a tunnel one hundred and thirty-five feet in length.

This is an independent sewer used for conducting away the sewage from the North and Squire companies' slaughtering establishments.

A similar sewer has been constructed, having its outlet through the separate connection into the Metropolitan, for disposing of the sewage from the New England Dressed Meat and Wool Company's buildings.

These two lines of sewers are also used at present for discharging into the Metropolitan sewer all salt and waste water used for manufacturing purposes by the three packing-house companies; agreements having been made between the Metropolitan Sewerage Commissioners and the Companies, whereby this large quantity of water pumped daily from Miller's River may be discharged through the "State" sewer for a number of years, by paying a certain amount per million gallons to the State for its disposal.

The North and Squire companies have had to make many changes in the drainage systems within their premises to accomplish the result aimed at:—namely, the diverting of everything formerly discharged into the city's sewers to the Metropolitan sewer, through an independent, or separate connection, excepting storm water.

DRAINAGE OF THE CITY.

While the Tannery Brook Storm Drain constructed the past year will be a great relief to the western section of our overcrowded sewer system in heavy storms, no provision has been made in the way of construction to relieve the easterly portion of the city.

Through Cross, Pearl, Marshall and Medford Streets, on the easterly side of the divide, and Somerville Avenue and Summer Street in the vicinity of Union Square, on the westerly side, the sewers are of insufficient capacity to take care of one-half the

storm water discharged into them, and thus complaints innumerable are received by the flooding of cellars.

Something in the line of construction of storm relief drains for these two sections should be carried on each year, and the obtaining of satisfactory outlets on the adjacent rivers should be no further delayed, inasmuch as the points desired for outlets will be more difficult to obtain.

A number of alterations in the sewer mains on Elm, Morrison and Grove Streets should be made in order to divert the flow, in storms, through pipe lines connecting with the storm drain conduit at Davis Square, and thus relieve the overcharged sewer through Grove Street.

That part of Somerville lying northwest of Curtis Street and between the cities of Cambridge and Medford, is being built upon quite extensively, and will require a system of drainage in the near future.

The outlet for the trunk or main sewer will be the Metropolitan sewer running along the easterly bank of Alewife Brook, as the route to the "State" sewer will necessarily be across private lands, between North Street and the Brook, on the line of prolongation of Raymond Avenue, the right of way should be secured at once while the land is available.

A large area along the line of location of the Boston and Lowell Railroad, in Somerville, is at present without proper drainage.

A structure designed to take away sewage and storm water combined, through this valley, should be built in the near future, which would eventually give relief to sections of the city's surcharged sewer system in time of heavy storms by diverting through this proposed conduit, its natural drainage area, part of which is at present flowing in other directions.

HUDSON AND ALBION STREETS, DISPOSAL OF SURFACE WATER.

A section of the city on the northerly side of Highland Avenue, in the vicinity of Hudson and Albion Streets, formerly

known as "Polly Swamp" and extending to the Lexington and Arlington Branch Railroad, has had practically no means of disposing of surface water in storms, the sewers in this locality being designed to take house drainage only.

During the past year a drain about nine hundred feet in length has been constructed, extending from the culvert located northwest of Lowell Street, at the Lexington and Arlington Branch Railroad, across private lands, Alpine, Princeton and Albion Streets to Hudson Street, this route being practically where the old water course originally ran.

This drain varies in size from about the discharge of a three and one-half circular structure to a fifteen inch pipe and is designed to take surface water from an area of about forty acres.

When edgestone is set and gutters paved on the adjacent streets the water can be conducted to catch basins and thence discharged into this drain. The work of construction was done by day labor the total cost amounting to \$1,390.86, which included the cost of connecting five catch basins.

SEWERS CONSTRUCTED IN 1896.

Thirty-five sewers have been constructed during the past year, a length of twenty-two thousand two hundred and thirteen feet, or four and two-tenths miles, at a total cost of forty-seven thousand seven hundred and sixty-four dollars and sixty-eight cents.

Abutters were assessed twenty-one thousand nine hundred and seventy-three dollars and seventy-seven cents, the city assuming the balance.

The increased length of sewers constructed during 1896 over the year 1895, has been two and eight-tenths miles.

The total length of sewers in the city December 31st, 1896, amounted to sixty-eight and seven-tenths miles.

A tabular statement in this report shows location, items of cost, assessments and cost to the city of all sewers constructed in 1896.

PRIVATE DRAINS.

Permits were granted for laying five hundred and twenty-two private drains, connecting buildings with the public sewers, during the year 1896; these drains have all been examined by an inspector and properly located and recorded for future reference in the engineer's office.

The cost of inspection has been two hundred and ninety-four dollars and ten cents.

CATCH BASINS.

Twenty-five catch basins have been built during the past year, at a cost of one thousand six hundred and eighty-six dollars and nineteen cents, making the total number of basins in the city December 31st, 1896, eight hundred and sixty-four.

The cost of changing the grade, re-building, repairing, cleaning, flushing and general maintenance of catch basins for the year 1896, has been two thousand eight hundred and sixty-six dollars and twenty cents.

REPAIRING AND CLEANING SEWERS.

The cost of changing the grade and rebuilding manholes, the repairing, cleaning and general maintenance of sewers during 1896, has been two thousand and seventy-two dollars and sixty-six cents.

Two sewers have been repaired and partially rebuilt, namely, Oak Street and Evergreen Avenue; these were private sewers, built many years ago.

Oak Street sewer is the shape of an ox bow, having a brick invert and side walls covered with stone slabs; through the side walls in many places gas pipes were found running across the sewer near the flow line, and almost completely blocking the

sewer the gas company was compelled to remove these pipes, and manholes were constructed at intervals to enable the cleaning of this old sewer when necessary.

The Evergreen Avenue sewer, between Marshall and School Streets, has probably never been cleaned since its construction, as there is no way provided for entering the sewer. Holes were dug at intervals of about fifty feet on the line of sewer, the top removed, and the sewer thoroughly cleaned of the deposit.

This sewer was found to be constructed of ledge stone side walls, covered with stone slabs, with apparently nothing but a clay bottom; the side walls were very uneven, stones in many places projecting into the sewer, forming dams; the sewer should be rebuilt in the near future.

EXPENDITURES.

The total cost of work done under sewers construction account the past year amounted to \$96,368.45.

The total cost of work done under sewers maintenance account the past year amounted to \$8,243.16.

An itemized account of receipts and expenditures in the sewer department will be found in the report of the Committee on Sewers.

TABULAR STATEMENT OF SEWERS BUILT IN 1896.

LOCATION.				ITEMS OF CONSTRUCTION.												COST.									
NAME OF STREET.	FROM	To	CONTRACTOR.	SEWER.		SUB-DRAIN.		MATERIAL EXCAVATED.	Average cut.	Cubic yards rock excavation.	Inlets.	Manholes.	Chimneys.	Price Manholes and Chimneys.	Price per cubic yard, Rock.	PIPE SEWER, COST PER LINEAL FOOT.						Total Cost.	Assessment.	Cost to City.	
				Size in inches.	Length in feet.	Size in inches.	Length in feet.									Labor.	Earth.	Labor, Sub-drain.	Pipe, including Sub-drain, where laid.	Inspection.	Miscellaneous.				Average cost per lineal foot.
Boston ave.	Medford line	Broadway		8	143.2	6	143.2	Hardpan, clay	11	1					6.2										
Broadway and Willow ave.	Boston ave.	Willow ave.	John J. Dorey	8	377.3	6	377.3	Hardpan and rock	10.5	8	18	3		\$58.24 58.24	6.2	1.10	0.15	0.24	0.04	0.01	\$2.40	\$1,325.10	\$2,506.04	\$1,720.06	
	Broadway	near Fosket st.		8	1216.2	6	977.0	Hardpan and rock	11.3	206.3	91	3	1	5.00	6.2										
Broadway	Cedar st.	Southeasterly	John J. Dorey	8	370.5			Sand	8.5	3.3	9	1		45.70	5.0	0.48		0.18	0.05	0.02	0.89	331.30	210.69	120.61	
Cameron ave.	Seven Pines ave.	Northeasterly	Richard Falvey	8	532.0			Sand, clay, rock	8.2	23.5	29	2		41.37	4.0	0.53		0.18	0.05	0.02	1.11	592.98	882.22		
Cedar	Broadway	near B. & L. R. R.	Christopher Burke	8	412.8	6	416.8	Hardpan and clay	13.9		11	1		70.70		0.86	0.21	0.25	0.04	0.01	1.55	645.09	570.26	74.83	
Cottage Circle	Cottage ave.	Southwesterly	T. C. Connor	6	90.2			Sand	6.6		2		1	2.50		0.12		0.11	0.02		0.28	24.92	24.92		
East Albion	Fremont st.	Medford line	Richard Falvey	8	175.6	6	174.6	Gravel and rock	8.5	40.8	6	1		36.83	3.25	0.53	0.12	0.23	0.06		1.96	333.88	111.02	222.86	
East Albion and Ash ave.	Moreland st.	Ash ave.		8	216.0	6	216.0	Loam and rock	11.6	181.0	11														
	East Albion st.	Southwesterly	John J. Dorey	8	288.5	6 5	156.5	Loam and rock	8.6	47.6	16	2		48.20	2.90	0.60	0.14	0.22	0.06	0.02	2.52	1,271.08	651.32	619.76	
Elmwood	Tannery Brook sewer	Southwesterly, northeasterly	H. A. Hanscom & Co.	8	634.6			Sand	8.2		32	2	1	37.38 2.00		0.55		0.19	0.04	0.02	0.93	587.54	1,285.45		
Fremont	Meacham st.	Main st.	John J. Dorey	8	660.9	6	237	Sand, hardpan, rock	8.6	168.6	42	4		48.67	4.50	0.48	0.14	0.20	0.07	0.14	2.39	1,577.32	1,099.11	478.21	
Glenfale	Yorktown st.	near Cameron ave.	Richard Falvey	8	334.1			Sand, clay	5.6		14	1		41.38		0.53		0.18	0.04		0.87	291.53	462.00		
Gorham	Howard st.	Northeasterly	H. A. Hanscom & Co.	10 8	569.6	4.5	418	Sand, hardpan	7.2		28	2		41.48		0.55	0.15	0.24	0.04		1.13	647.46	1,138.48		
Hanson ave	Hanson st.	Easterly and northerly	Charles A. Kelley	10	245.8			Sand	7.0		8	1		33.70		0.40		0.21	0.02	0.01	0.77	189.46	189.33	0.13	
Jay	Howard st.	Northeasterly	H. A. Hanscom & Co.	8	326.9	5.6	221.5	Sand, hardpan	6.9		15	1		38.48		0.55	0.15	0.24	0.07	0.04	1.12	365.25	556.26		
Malvern ave.	Yorktown st.	near Cameron ave.	Richard Falvey	8	333.5			Hardpan, clay	8.2		15	1		42.48		0.53		0.18	0.04		0.88	293.20	481.82		
Moreland	Mystic ave.	East Albion st.		8	243.7	6	243.7	Hardpan, rock	8.7	30	14	2		50.70											
East Albion	Moreland st.	Fremont st.		8	256.9	6	256.9	" "	10.4	236.5	18	1		50.70											
Fremont and	East Albion st.	Meacham st.	H. A. Hanscom & Co.	8	568.6	6	568.6	" "	8.7	192.4	38	3		50.70	4.31	0.58	0.15	0.31	0.13	0.02	3.10	3,749.37	1,779.92	1,969.45	
Meacham	Fremont st.	Medford line		8	141.5	6	141.5	" "	6.2	5.7	8														
Metropolitan connection	at Mystic ave.	and Moreland st.			30.																	1,400.10		1,400.10	
Moreland	East Albion st.	Meacham st.		8	588.7	6	688.7	Sand and rock	10	291	35	2		51.51											
Meacham and	Moreland st.	Ash ave.	Christopher Burke	8	215.7	6	134.7	" "	10.4	84	12	2		51.51	3.00	0.55	0.20	0.21	0.13	0.05	2.41	2,602.50	1,599.68	902.82	
Ash ave.	Meacham st.	Northeasterly		8	302			" "	6.7	40	22														
Mystic st.	Somerville ave.	near Washington st.	Charles A. Kelley	12	324			Sand	8.3		19	1		35.33		0.48		0.28	0.10		0.97	314.13	313.49	0.64	
Mystic ave. and	Moreland st.	Fremont st.		8	286.6			Clay filling and rock	12.5	195	13	1		42.88 42.88											
Fremont	Mystic ave.	near East Albion st.	Richard Falvey	8	234.8			Clay filling and rock	9.0	100.6	15	1	1	4.00	3.25	0.63		0.18	0.03		2.85	1,489.84	398.34	1,091.50	
Mystic ave. and	Winthrop ave.	Wheatland st.	Maurice Buttmer	18	714.8			Clay and pent	17.1		26	1	26	69.98 5.00		1.95		0.68	0.12	0.02	3.55	2,879.16	499.00	2,380.16	
Wheatland st.	Tide gates.																					398.48		398.48	
Passageway off Broadway	Broadway	Southwesterly	W. F. Cunningham	8	221.1			Hardpan and clay	11.2	6.1	10		5	1.60	3.00	0.53		0.16	0.06	A 0.69	0.97	213.49	193.85	19.64	
Passageway off Walter	Walter st.	Northeasterly	John J. Dorey	8	148.0			Hardpan and clay	4.5		4								0.03		0.20	30.02	30.02		
Private lands	Sewer in private lands N. of Albion street, built in 1893	Princeton		8	221.1			Sand	3.5																
Alpine and	Private lands	Northwesterly and southeasterly	Charles A. Mongan	8	622.8			Sand and rock	4.9	74	16	4		27.33											
Princeton	Private lands	Northwesterly and southeasterly		8	576.1			" "	3.4	36	12	3		27.33	3.50	0.25		0.15	0.04		0.84	1,193.17	1,193.16	0.01	
Private lands and	Medford line	College ave.	A. W. Bryne Construction Co.	10	421.5	6	421.5	Clay	8.4		12	1		43.17		0.65									
College ave.	Private lands	near Broadway		8	477.9	6	481.0	Sand and clay	8.5	3	26	3		43.17	3.00	0.60	0.25	0.27	0.03	0.65	1.39	1,248.97	1,247.62	1.35	
Private lands and	Somerville ave. Metropolitan Con.	Medford st.		12	175.5			Clay and pent	14.8		2														
Medford st.	North Packing & Prov. Co.'s drive	N. E. D. M. & W. Co.'s drive	City	12	96.3				11.1												4.04	1,098.64		1,098.64	
North Packing & Prov. Co	Surface water drain		City	12 10 8	632			Filling and clay	6.5		9										1.44	912.30		912.30	
Somerville ave.	Poplar	East of F. R. R.	T. F. Lynch & Co.	20 18	556.3 524.7	6 5	181.5	Filling, pent and clay	15.5	6.4 35.0	2	5		75.19	4.00 2.00	2.60 2.40	0.25	0.60	0.09	A 0.34 B 0.59	5.57	6,020.42		6,020.42	
J. P. Squire's	Surface water drain		City	12	385			Filling and mud	9.0		4										1.53	590.59		590.59	
Sycamore and	Richdale ave.	Pembroke	Charles A. Kelley	10	155.3			Hardpan and rock	8.3	60	5	1		32.33	2.50										
Pembroke	Sycamore	Westerly		10	76.5			" "	7.7	40	4				2.50	0.50		0.23	0.05		2.01	463.96	319.14	144.82	
*Tannery Brook	Clarendon ave. (Cambridge)	84 ft. E. of Thorndyke st.	A. W. Bryne Construction Co.	12 10 8	3907.94			Sand	7.2													7,391.30	763.62	6,637.68	
*Thorndike	Howard st.	Southwesterly, northeasterly	H. A. Hanscom & Co.	8	251.23			Sand	5.5		14	1	1	44.63 2.00		0.55		0.19	0.07	0.05	1.04	261.75	406.09		
Willow ave. and	End old sewer built 1880	Fosket st.	Christopher Burke	10	158.8			Clay and rock	8.7	104	3	1		71.20	5.00										
Fosket	Willow ave	Lowden st.		10	235.4			Rock	8.8	75	16	1		71.20	5.00	0.55		0.26	0.13	0.05	4.38	1,726.6			

Total length and cost of new sewers built in 1896 22,213.10 \$47,706.33 | \$31,973.77 | \$28,191.33

* Assessed under district system.
A Removing surplus material after construction of sewer.
B Lumber left in place.
C Test pits and relocation of old sewer.

Total length of sewers built by the city previous to January 1 1896 316,079.2 feet
" " " " " " during the year 1896 22,313.1 "
" " " " " " January 1, 1897 337,392.3 "
" " " " " " private parties 25,602.1 "
" " " " " " In the city January 1, 1897 362,994.4 "

Address	Name	Age	Sex	Occupation
1000 Broadway	John Doe	35	M	Teacher
1001 Broadway	John Doe	35	M	Teacher
1002 Broadway	John Doe	35	M	Teacher
1003 Broadway	John Doe	35	M	Teacher
1004 Broadway	John Doe	35	M	Teacher
1005 Broadway	John Doe	35	M	Teacher
1006 Broadway	John Doe	35	M	Teacher
1007 Broadway	John Doe	35	M	Teacher
1008 Broadway	John Doe	35	M	Teacher
1009 Broadway	John Doe	35	M	Teacher
1010 Broadway	John Doe	35	M	Teacher
1011 Broadway	John Doe	35	M	Teacher
1012 Broadway	John Doe	35	M	Teacher
1013 Broadway	John Doe	35	M	Teacher
1014 Broadway	John Doe	35	M	Teacher
1015 Broadway	John Doe	35	M	Teacher
1016 Broadway	John Doe	35	M	Teacher
1017 Broadway	John Doe	35	M	Teacher
1018 Broadway	John Doe	35	M	Teacher
1019 Broadway	John Doe	35	M	Teacher
1020 Broadway	John Doe	35	M	Teacher

HIGHWAYS.

Thirteen streets have been accepted during the year, an aggregate length of one and one-half miles, making the total length of public streets fifty-four and two-tenths miles.

Seven private streets have been opened by land owners, making the total length of private streets thirty-three miles.

The sum total, both public and private streets, in the city December 31, 1896, is eighty-seven and two-tenths miles.

MEDFORD STREET PAVING.

Medford Street has been paved with granite blocks between the Fitchburg Railroad and the northerly line of Somerville Avenue; these blocks were laid on a concrete foundation where the old roadbed was of filled material.

The contract was awarded H. Gore & Co., the total cost of the work was as follows:—

1991.1 sq. yds. granite block paving (concrete foundation) . . .	\$3,478.17	
42 sq. yds. granite block paving (gravel foundation) . . .	35.70	
67.8 lin. ft. edgestone re-set . . .	10.17	
57.5 sq. yds. cross walks laid . . .	99.48	
Extra work and materials Fitchburg Railroad crossing and North's driveway	123.49	
	<hr/>	\$3,747.01
41,556 granite blocks delivered . . .	1,940.06	
308.8 sq. ft. granite flagging delivered	92.64	
	<hr/>	\$2,032.70
Inspection of work and materials		82.75
		<hr/>
Total cost		\$5,862.46

WASHINGTON STREET PAVING.

Washington Street has been paved with granite blocks between Tufts Street and Medford Street the past year.

In order to provide for storm water that collects on the low part of the roadway under the Lowell Railroad bridge, an iron pipe was placed about twenty inches below the surface with which upright pipes are connected, catching the water which follows the electric car rails, and is conducted to a catch basin built in the easterly side of the roadway, and thence through private lands about seven hundred feet and discharging into Linwood Street sewer.

The paving beneath the railroad bridge is laid on a concrete foundation, the remainder on gravel.

The contract for this work was awarded in two sections, W. H. Gore & Co. completing the section between Tufts Street and Joy Street, H. Gore & Co. the section between Joy Street and Medford Street.

The total cost of the work was as follows:—

1401.3 sq. yds. granite block paving	\$1,331.24	
33 lin. ft. edgestone reset	8.66	
46.5 sq. yds. cross walks laid	58.13	
	<hr/>	\$1,398.03
Extra labor and teaming on account of old sewer		28.88
384.9 sq. yds. concrete foundation under bridge		384.90
33,107 granite blocks delivered	\$1,536.20	
25.1 lin. ft. edgestones (circle)	15.94	
179.8 sq. ft. granite flagging, delivered	53.94	
	<hr/>	1,606.08
Building catch basin and laying iron pipe		35.55
Inspection of work and materials		48.38
		<hr/>
Total cost (between Tufts Street and Joy Street)		\$3,501.82

2449.1 sq. yds. granite block paving	\$2,081.74	
16.6 lin. ft. edgestone re-set	2.49	
.5 sq. yds. brick sidewalk re-laid . . . . .	.22	
25.3 sq. yds. cross walks laid	40.48	
	<hr/>	\$2,124.93
54,150 granite blocks, delivered	\$2,512.56	
99.2 sq. ft. granite flagging delivered	29.76	
	<hr/>	2,542.32
Inspection of work and materials		31.50
		<hr/>
Total cost (between Joy and Medford Streets)		\$4,698.75

All granite blocks used were of "Rockport" granite, purchased from the Pigeon Hill Granite Company.

One quarter of a mile of paved street has been constructed the past year, making about one and nine-tenths miles in the city December 31, 1896.

The Engineering Department has given lines and grades for setting twenty-one thousand nine hundred and seventy-nine and eight-tenths linear feet, or four and sixteen hundredths miles of edgestone during the past year; also six thousand nine hundred and eighty-four and seven-tenths square yards of new brick sidewalk have been laid.

Somerville had, December 31, 1896, over sixty-seven miles of edgestone and forty-three miles of brick sidewalks.

The West End Street Railroad Company has completed a double track on Medford Street and Highland Avenue, extending from Somerville Avenue to Davis Square, for which the Engineering Department has given grades, a length of about two and two-tenths miles, so that Somerville has at present about fourteen miles of electric railroad.

An itemized account of all work done by the Highway Department will be found in the report of the Committee on Highways.

STREETS ACCEPTED IN 1896.

Name of Street.	Ward.	From	To	Width in Feet.	Length in Feet.
Avon . . .	2	School st. .	Central st. .	40	1,360
Banks . . .	4	Elm st. . .	Summer st. .	40	639
Benton ave. .	3	Highland ave.	Hudson st. .	40	286
Burnside ave.	4	Elm st. . .	Summer st. .	40	720
Cambria . . .	4	Central st. .	Benton ave. .	40	488
Cameron ave.	4	Holland st. .	Cambridge line	60	1,000
Electric ave. .	4	Curtis st. .	Packard ave .	40	681
Houghton . .	2	Oak st. . .	Springfield st. °	40	204
Kidder ave. .	4	Elm st. . .	Liberty ave.	40	625
Lee . . .	3	Medford st. .	Richdale ave.	40	385
Lowell . . .	3	Highland ave.	Albion st. .	40	390
Westminster .	4	Broadway .	Electric ave.	40	376
Wigglesworth	3	Bonair st. .	Pearl st. .	40	740
<i>Total</i> . . .	.	. . . . .	. . . . .	.	7,894

Table showing Location and Cost of Edgestones and Brick Sidewalks and Paved Gutters where Edgestone was set.

STREET.	WARD.	SIDE.	FROM	To	WIDTH OF SIDEWALK.	MATERIALS.		Cost.	PAVED GUTTERS.	
						Gravel and Edgestones. Lineal feet.	Bricks, Sq. Yards.		Sq. Yards.	Cost.
Adams	3	Easterly	Broadway	Medford st.	6.67	.....	576.2	\$540.48	.....	.....
Bartlett	3	Westerly	Vernon st.	Medford st.	6.67	866.1	.....	589.43	289.	\$ 299.70
Beacon	2	Northerly	Washington st.	Vine st.	11.00	586.5	.....	398.06	195.	337.03
Beacon	4	Northerly	Miller st.	Fitchburg Railroad	11.00	1,185.5	.....	779.61	395.	662.44
Belmont	4	Easterly	Summer st.	Estate of J. K. James	6.67	381.0	272.0	514.08	127.	56.76
Broadway	3	Northeasterly	Estate of Welcome	Estate of Doolittle	15.00	678.4	.....	546.62	226.	440.03
Broadway	3	Southwesterly	Sycamore st.	Adams st.	15.00	237.6	891.2	1,059.52	79.	398.33
Central	4	Westerly	Gibbens st.	Estate of Haigh	6.67	95.2	285.6	333.29	32.	97.65
Cherry	4	Easterly	Summer st.	Sartwell ave.	9.50	.....	432.1	496.25	.....	.....
Derby	3	Northerly	Temple st.	Grant st.	6.67	836.0	.....	618.76	278.	330.45
Elm	4	Northerly	Cherry st.	Willow ave.	10.00	896.5	.....	701.14	299.	659.75
Elm	4	Easterly	Estate of H. E. Hill	Nathan Tufts Park	10.00	1,066.7	.....	798.14	356.	406.15
Franklin	1	Easterly	Franklin ave.	Washington st.	6.67	628.6	.....	446.57	210.	161.65
Highland ave.	2	Southerly	Medford st.	Walnut st.	10.00	.....	525.7	578.09	.....	.....
Highland ave.	3 and 4	Northerly	Central st.	Grove st.	10.00	4,846.1	.....	3,061.73	1,615.	1,517.58
Hudson	3	Southerly	Lowell st.	Cedar st.	6.67	1,400.8	.....	872.20	467.	1,198.00
Kenwood	4	Both	Elm st.	Billingham st.	6.67	673.5	.....	577.50	225.	250.25
Madison	3	Southerly	School st.	Sycamore st.	6.67	904.8	.....	641.86	302.	186.90
Medford	3	Southwesterly	Central st.	Bartlett st.	9.16	.....	572.6	540.95	.....	.....
Mossland	4	Easterly	Somerville ave.	Estate of Spencer	6.67	259.1	189.4	311.20	86.	121.50
Orchard	4	Southerly	Day st.	Chester st.	6.67	.....	241.6	269.00	.....	.....
Pearl	3	Northeasterly	Cross st.	Walnut st.	8.33	.....	1,220.8	1,154.35	.....	.....
Pearl	3	Northeasterly	Walnut st.	Estate of Litchfield	8.33	492.3	.....	393.59	164.	473.35
Robinson	3	Northerly	Central st.	Bartlett st.	6.67	636.6	.....	461.74	212.	243.60
Rossmore	2	Both	Somerville ave.	Washington st.	6.67	1,053.4	.....	659.46	351.	510.90
School	3	Northwesterly	Highland ave.	Madison st.	8.33	258.0	.....	189.36	86.	73.00
Stickney ave.	3	Westerly	Marshall st.	School st.	6.67	452.3	.....	353.07	151.	154.60
St. James ave.	4	Westerly	Summer st.	Elm st.	6.67	518.5	.....	361.89	173.	390.10
Summer	4	Southerly	Ashland st.	Cherry st.	7.50	.....	192.2	200.20	.....	.....
Summit	4	Both	Elm st.	Billingham st.	6.67	509.7	.....	446.36	170.	135.10
Washington	2	Southerly	Sanborn's Field	Y. M. C. A. Grounds	10.00	545.3	.....	387.01	182.	286.65
Totals						20,008.5	5,399.4	\$19,281.51	6,670.	\$9,391.47

PUBLIC GROUNDS.

Many minor changes have been made in the maintenance of the public parks of the city during the past season, such as the addition of ornamental flower beds of various designs, rustic baskets filled with tropical plants, shrubbery and small trees adorning the foot paths.

On Central Hill Park steps have been constructed on the School Street slope, opposite Madison Street, and new asphalt walks laid, one leading to the English High School building, and another to City Hall addition, and extending along the easterly side of the building, terminating at the old entrance where additional granite steps have been placed.

The items of expenditure on Public Grounds have been as follows:—

BROADWAY PARK.

Labor, care of walks, grass, shrub-		
bery and beds	\$1,374.75	
Labor, removing snow from pond		
and care of ice for skating	152.94	
Horse hire	49.13	
Raising and lowering flagstaff	37.75	
Use of water	15.00	
Tools and sundries	25.44	
Repairing tools and property	28.01	
Repairing and sharpening lawn		
mowers	19.68	
Repairing and painting settees	17.74	
New settees	26.40	
New hydrant and piping	48.03	
Plants, flowers and foliage for beds	196.00	
	<hr/>	\$1,990.87

BROADWAY PARKWAY.

Labor, care of grass and plants .	\$98.00	
Horse hire	14.00	
Hose	18.00	
Tree supports	8.75	
Rustic baskets (26)	130.00	
Filling baskets, plants, loam and dressing	91.00	
	<hr/>	\$359.75

CENTRAL HILL PARK.

Labor, care of walks, grass, trees, shrubbery and beds	\$1,206.77	
Labor, removing snow and ice from walks	243.52	
Horse hire	17.00	
Use of water	24.00	
Tools and sundries	53.62	
Repairing tools and property	8.59	
Repairing and sharpening mowers	8.40	
Repairing and painting settees	9.50	
New settees	52.80	
Trees	114.60	
Tree supports	21.75	
Water services and gate boxes	118.65	
Plants, flowers and shrubbery	177.60	
Bulbs and planting	160.35	
Hand rail on walk, iron, granite posts, etc.	211.40	
Asphalt walks and granite steps, City Hall	723.11	
Steps and railings, School street slope (unpaid, \$160.08)	188.68	
Re-grading School street slope	45.38	
	<hr/>	\$3,385.72

NATHAN TUFTS PARK.

Labor, care of walks, grass and shrubbery	\$744.50	
Use of water	15.00	
Hose	48.00	
Tools and sundries	3.30	
Repairing tools and property	5.36	
Settees	30.80	
	<hr/>	\$846.96

SOMERVILLE AVENUE CEMETERY.

Labor, care of walks and grass	\$79.00	
Use of water	5.00	
	<hr/>	84.00

MISCELLANEOUS.

Reserve paid on contract of 1895, grading English High School grounds	\$164.57	
Reserve paid on contract of 1895, fencing Wyatt pit	16.65	
One-half expense changing grade sidewalk on Highland avenue at Public Library	125.89	
Express, car fares, hack hire, etc.	33.89	
	<hr/>	341.00
Total		<hr/> \$7,008.30

WATER WORKS.

Lines and grades for laying water pipes have been given, when requested by the water department, and all mains, services, gates and hydrants have been properly located and recorded for future reference.

Whenever requested by the water department, the sizes and locations for the relaying of old cement pipe with new iron pipe or the extension of water mains in new sections has been determined; as the location of the new mains of the Metropolitan Water System, where they cross Somerville, has been definitely defined, future sizes of pipes for relaying and extension should be so designed that when the entire city has been piped a perfect distribution system for fire supply purposes will have been provided for every locality.

In the annual report of the Somerville Mystic Water Board will be found a detailed account, with a complete set of tables showing work done by the water department.

BRIDGES.

BOSTON AND MAINE RAILROAD (SOUTHERN DIVISION).

Over the line of this railroad in Somerville there are nine highway bridges, seven of which are modern iron structures and in good condition; two bridges, one at School street, the other at Sycamore street, are old structures, the abutment walls and floor planking being in poor condition.

These old bridges will probably be replaced in the near future by ornamental iron designs built considerably wider than the old, to allow for extra tracks.

FITCHBURG RAILROAD.

At present there are three bridges over this railroad within the city limits, all in good repair. A number of plans and esti-

mates have been made for highway and foot bridges and subways on the line of this road in the vicinity of Kent and Sacramento streets, with a view of doing away with the present dangerous crossings.

It is very probable that in the near future something will be done to abolish grade crossings in Somerville, on the line of the Fitchburg Railroad.

MYSTIC RIVER AND ALEWIFE BROOK.

The Middlesex avenue bridge over Mystic river is maintained by the City of Medford, Somerville paying one-half of the cost.

As the line of the new boulevard to Middlesex Fells crosses the river at this point a new and wider bridge will probably be constructed within a few years.

The highway bridges over Alewife brook at Broadway and Boston avenue are in good condition.

MISCELLANEOUS WORK.

Street Watering.—The past year the payment for watering of streets for the season was changed from the depositing of the necessary amount by the residents, to an assessment for the amount required on the land owners.

This change made considerable extra work in the engineering department, as all frontages and owners' names of property to be assessed were compiled by assistants in this department. Two hundred ninety seven thousand and seven hundred feet (56.4 miles) of frontage being watered and assessed in this manner.

City Map.—The first of the year an accurate map of the entire city was completed, showing all streets and public buildings, also the distance of any point from the City Hall; the last

map of the city made for distribution was in 1883, since which time many changes in names and locations of streets have been made.

Middlesex Registry of Deeds.—All conveyances affecting sewer, sidewalk and street watering assessments, and the ownership of land on streets accepted by the city during the past year have been examined and recorded in this office; also a copy has been made of all plans recorded at East Cambridge the past year, showing real estate in Somerville.

Public Buildings.—The engineering department has furnished plans, lines and grades for the erection of public buildings and designs and estimates for grading the grounds when called upon.

Street Numbering.—Every year the engineering department numbers all buildings and replaces numbers on old buildings early in the year, thus enabling the assessors to properly locate buildings and lots in making their annual valuation of the city.

There are many streets in this city that are an extension of streets in Cambridge, both cities numbering independently of each other, and thus creating considerable trouble to residents, as duplicate numbers occur.

Two of the streets have been re-numbered, and the remainder should be attended to as soon as possible.

Street Monuments.—There are many old street lines in the city that are almost impossible to be defined accurately on account of the original bounds, or monuments, having been removed from time to time by the building of sewers, car tracks, etc.

Bounds should be set locating all angle points in streets, and at other locations, to properly define the street line; nothing in this line has been done for the past ten years, although attention has been repeatedly called to the matter.

It is hoped that during the coming year some progress will be made in setting a few of these stone bounds where it is absolutely necessary.

Office Records.—Plans and profiles of all sewers constructed during the past year have been made, showing names of abutting owners assessed, frontages, areas, amounts of assessment and all details of construction.

New numbering plans and many street plans, profiles and various sketches and estimates of city work have been made and properly recorded for future use.

ERNEST W. BAILEY,

City Engineer.

TABLE SHOWING THE LOCATION, LENGTH AND WIDTH OF
PUBLIC AND PRIVATE STREETS.

STREET.	FROM	TO	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Adams	Broadway	Medford st.	Public.	40	900	.....
Adrian	Marion st.	Joseph st.	Private.	40	.....	530
Albion place	Albion st.	Northeasterly	Private.	10	.....	80
Albion	Central st.	Cedar st.	Public.	40	2,742	.....
Albion	Broadway	Medford line	Private.	50	.....	100
Aldersey	Walnut st.	Vinal ave.	Public.	40	508	.....
Aldrich	Pearl st.	B. & L. R. R.	Public.	40	611	.....
Alfred	Broadway	Medford line	Private.	50	.....	50
Allen	Somerville ave.	Charlestown st.	Private.	25	.....	680
Allen ct.	Park st.	Northwesterly	Private.	20	.....	150
Alpine	Cedar st.	Southeasterly	Private.	30	.....	670
Alpine	Alpine st.	Lowell st.	Private.	40	.....	688
Alston	Cross st.	Shawmut place	Private.	40	.....	420
Ames	Bartlett st.	Robinson st.	Public.	40	580	.....
Appleton	Willow ave.	Clifton st.	Public.	40	510	.....
Appleton	Clifton st.	Liberty ave.	Private.	40	.....	120
Arlington	Franklin st.	Lincoln st.	Public.	40	440	.....
Arnold ct.	Beacon st.	Northeasterly	Private.	10	.....	115
Arthur ct.	Linden st.	Easterly	Private.	about 10	.....	100
Arthur	Broadway	Bonair st.	Public.	40	438	.....
Ash ave.	Meacham st.	Northeasterly	Private.	40	.....	705
Ashland	Summer st.	Sartwell ave.	Private.	30	.....	470
Asylum ave.	Washington st.	McLean Asylum	Private.	about 30	.....	2,000
Atherton	Central st.	Beech st.	Private.	40	.....	264
Auburn ave.	Cross st.	B. & L. R. R.	Private.	30	.....	600
Austin	Broadway	Mystic ave.	Public.	40	680	.....
Autumn	Broadway	Bonair st.	Private.	20	.....	420
Avon	School st.	Central st.	Public.	40	1,360	.....
Avon place	Cross st.	B. & L. R. R.	Private.	25	.....	150
Ayer ave.	Morrison ave.	Boston ave.	Private.	70	.....	1,500
Banks	Elm st.	Summer st.	Public.	40	639	.....
Bartlett	Vernon st.	Medford st.	Public.	40	820	.....
Bartlett	Medford st.	Broadway	Private.	40	.....	730
Bartlett	Washington st.	Asylum grounds	Private.	20	.....	200
Bay State ave.	Broadway	Fosket st.	Private.	40	.....	1,197
Beach ave.	Webster ave.	Columbia st.	Private.	about 20	.....	200
Beacon place	Beacon st.	Northeasterly	Private.	15	.....	200
Beacon	Cambridge line	Somerville ave.	Public.	66	6,100	.....
Beacon terrace	Somerville ave.	Northeasterly	Private.	24	.....	110
Bean's ct.	Cutter st.	Southeasterly	Private.	16	.....	100
Bedford	South st.	Cambridge line	Private.	30	.....	160
Beech	Somerville ave.	Spring st.	Public.	40	800	.....
Bellevue terrace	Albion st.	Northeasterly	Private.	20	.....	90
Belmont	Somerville ave.	Highland ave.	Public.	40	2,175	.....
Belmont place	Belmont st.	Southeasterly	Private.	25	.....	175
Benedict ave.	Broadway	Benedict st.	Private.	20	.....	200
Benedict	Union st.	Austin st.	Public.	40	600	.....
Bennett ct.	Bennett st.	Prospect st.	Private.	10	.....	100
Bennett	Prospect st.	Bennett ct.	Private.	40 to 25	.....	400
Benton ave.	Summer st.	Highland ave.	Private.	40	.....	924
Benton ave.	Highland ave.	Hudson st.	Public.	40	286	.....
Berkeley	School st.	Central st.	Public.	40	1,360	.....
Berwick	Lawrence st.	Northwesterly	Private.	20	.....	170
Bigelow	Boston st.	High st.	Public.	50	208	.....
Billingham	Broadway	William st.	Public.	40	563	.....
Bishop's place	Glen st.	Easterly	Private.	10	.....	75
Blakeley ave.	Winthrop ave.	Cross st.	Private.	40	.....	630
Bleachery ct.	Somerville ave.	Fitchburg R. R.	Private.	30	.....	450
Bolton	Oak st.	Houghton st.	Private.	40	.....	500
Bonair	Cross st.	Walnut st.	Public.	40	1,470	.....
Bond	Broadway	Jaques st.	Public.	40	640	.....
Bonner ave.	Washington st.	Columbus ave.	Public.	40	450	.....
Boston ave.	Medford line	Mystic River	Public.	60	910	.....
Boston ave.	Broadway	Medford line	Public.	50	80	.....

TABLE SHOWING THE LOCATION, LENGTH AND WIDTH OF
PUBLIC AND PRIVATE STREETS.— *Continued.*

STREET.	FROM	TO	Public or Private.	Width in Feet.	LENGTH.	
					Public	Private.
Boston ave.	Cedar st.	Broadway.	Private.	50	.....	1,120
Boston	Washington st.	Prospect Hill av.	Public.	45	630	.....
Boston	Prospect Hill av.	Walnut st.	Public.	40	1,250	.....
Bow	Union sq.	Wesley sq.	Public.	60	600	.....
Bow	Wesley pk.	Somerville ave.	Public.	50	500	.....
Bowdoin	Washington st.	Southerly	Private.	40	.....	370
Bow St. place	Bow st.	Northwesterly	Private.	40	.....	300
Bradford ave.	School st.	Southeasterly	Private.	40	.....	150
Bradley	Pearl st.	Walter st.	Public.	40	762	.....
Brastow ave.	Lowell st.	Porter st.	Public.	40	686	.....
Broadway	Charlestown line	Cross st.	Public.	100	2,590	.....
Broadway	Cross st.	Marshall st.	Public.	100 to 200	2,060	.....
Broadway	Marshall st.	Main st.	Public.	100	1,570	.....
Broadway	Main st.	Top of hill	Public.	100 to 90	1,030	.....
Broadway	Top of hill	Albion st.	Public.	90	2,540	.....
Broadway	Albion st.	Willow ave.	Public.	90 to 70	1,030	.....
Broadway	Willow ave.	Paulina st.	Public.	70	3,250	.....
Broadway	Paulina st.	Arlington line	Public.	65	3,220	.....
Broadway pl.	Broadway	Southwesterly	Private.	22	.....	250
Bromfield road	Elm	Professors' row	Private.	40	.....	1,260
Brook	Glen st.	Cross st.	Public.	40	500	.....
Brook	Dover st.	Northerly	Private.	40	.....	200
Browning road.	Sycamore st.	Central st.	Private.	40	.....	679
Buckingham	Beacon st.	Dimick st.	Public.	40	300	.....
Burnside ave.	Elm st.	Summer st.	Public.	40	720	.....
Caldwell place	Washington st.	Southerly	Private.	20	.....	210
Calvin	Beacon st.	Dimick st.	Private.	40	.....	250
Calvin	Dimick st.	Washington st.	Private.	30	.....	395
Cambria	Central st.	Benton ave.	Public.	40	488	.....
Cameron ave.	Holland st.	Cambridge line	Public.	60	1,000	.....
Campbell Pk.	Meacham st.	Kingston st.	Public.	40	399	.....
C'mpb'll Pk. pl.	Kingston st.	Arlington Br. R.	Private.	20	.....	84
Carlton	Somerville ave.	Lake st.	Public.	40	300	.....
Carver	Porter st.	Northwesterly	Private.	40	.....	156
Cedar	Elm st.	Broadway	Public.	40	4,150	.....
Cedar ave.	Cedar st.	Linden ave.	Private.	22	.....	290
Cedar St. pl.	Murdock st.	Southwesterly	Private.	20	.....	220
Central	Somerville ave.	Summer st.	Public.	33	1,150	.....
Central	Summer st.	Medford st.	Public.	40	2,480	.....
Central	Medford st.	Broadway	Public.	45	1,070	.....
Centre	Albion st.	B. & L. R. R.	Private.	35	.....	200
Chandler	Park ave.	Broadway	Public.	40	1,232	.....
Chapel	Elm st.	Chandler st.	Public.	40	273	.....
Chapel ct.	Sycamore st.	Northwesterly	Private.	12	.....	130
Charles	Washington st.	Asylum Grounds	Private.	30	.....	200
Charlestown	Allen st.	Easterly	Private.	15	.....	400
Charnwood road.	Willow ave.	Gordonia road	Private.	40	.....	588
Chauncey ave.	Broadway	Mystic ave.	Public.	50	1,320	.....
*Chelsea	Mystic ave.	Melrose st.	Private.	50	.....	1,390
Cherry	Elm st.	Highland ave.	Public.	45	1,450	.....
Chester	Elm st.	Cambridge line	Public.	40	850	.....
Chester ave.	Medford st.	Angle	Public.	about 22	220	.....
Chester ave.	Angle	Cross st.	Private.	20	.....	445
Chester place	Chester st.	Northwesterly	Private.	40	.....	200
Chestnut	Poplar st.	Southeasterly	Private.	40	.....	540
Church	Summer st.	Somerville ave.	Public.	40	560	.....
Church (south)	Somerville ave.	Lake st.	Public.	40	340	.....
Church St. pl.	Church st.(so'th)	Northwesterly	Private.	25	.....	170
Claremon	Holland st.	Mead st.	Public.	40	560	.....
Clarendon ave.	Broadway	Cambridge line	Private.	40	.....	1,210
Clark	Newton st.	Northwesterly	Private.	35	.....	450

* Proposed.

TABLE SHOWING THE LOCATION, LENGTH AND WIDTH OF
PUBLIC AND PRIVATE STREETS.—*Continued.*

STREET.	FROM	TO	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Cleveland	Central st.	Elm place	Private.	40	....	270
Clifton	Appleton st.	Morrison st.	Public.	40	240	....
Clifton	Morrison st.	Arlington Br. R.	Private.	40	....	220
Clyde	Cedar st.	Murdock st.	Private.	30	....	600
College ave.	Broadway	Medford line	Public.	50	1,700	....
Columbia	Glass House ct.	Cambridge line	Private.	40	....	550
Columbia ct.	Columbia st.	Webster ave.	Private.	9	....	150
Columbus ave.	Land of Clark	Walnut st.	Public.	40	1,000	....
Columbus ct.	Washington st.	Northerly	Private.	30	....	100
Concord ave.	Prospect st.	Leon st.	Public.	40	1,500	....
Concord ave.	Leon st.	Beacon st.	Private.	30	....	470
Congress place	Linwood st.	Southwesterly	Private.	16	....	200
Conlon ct.	Columbia st.	Easterly	Private.	20	....	200
Conwell	Highland ave.	Southwesterly	Private.	35	....	360
Conwell ave.	Curtis st.	Westerly	Private.	40	....	600
Cook	Marion st.	W. of S. Wyatt st.	Private.	40	....	450
Cooney	Beacon st.	Line st.	Private.	26	....	220
Cottage ave.	Russell st.	Chester st.	Public.	40	500	....
Cottage circle	Cottage ave.	Southwesterly	Private.	25	....	87
Cottage place	Washington st.	Northwesterly	Private.	about 11	....	150
Craigie	Somerville ave.	Summer st.	Public.	50	1,250	....
Crescent	Washington st.	Pearl st.	Private.	30 to 38	....	650
Crocker	Highland ave.	Crown st.	Public.	40	528	....
Cross	Medford st.	Broadway	Public.	45	2,650	....
Cross	Broadway	Mystic ave.	Public.	40	1,100	....
Crown	Porter st.	Lowell st.	Private.	30	....	700
Curtis	Broadway	Medford line	Public.	40	2,300	....
Cutler	Lawrence st.	Northwesterly	Private.	20	....	170
Cutter	Broadway	Webster st.	Public.	40	740	....
Cutter ave.	Summer st.	Highland ave.	Public.	40	430	....
Cutter place	Cutter ave.	Northwesterly	Private.	30	....	155
Cypress	Central st.	Beech st.	Public.	40	262	....
Dana	Bonair st.	Pearl st.	Public.	40	690	....
Dane	Somerville av.	Washington st.	Public.	40	1,270	....
Dane ave.	Dane st.	Easterly	Private.	30	....	600
Dartmouth	Medford st.	Broadway	Public.	40	1,450	....
Day	Elm st.	Cambridge line	Public.	40	940	....
*Dean ave.	Morrison ave.	Boston ave.	Private.	40	....	1,145
Delaware	Aldrich st.	Pearl st.	Public.	40	451	....
Dell	Glen st.	Tufts st.	Private.	40	....	465
Derby	Temple st.	Grant st.	Public.	40	831	....
Derby	Grant st.	Wheatland st.	Private.	40	....	200
Dexter	Broadway	Medford line	Private.	50	....	25
Dickinson	Springfield st.	Beacon st.	Public.	40	770	....
Dimick	Concord ave.	Calvin st.	Private.	40	....	860
Distillhouse	South st.	Cambridge line	Private.	35	....	150
Dix place	Linwood st.	Southwesterly	Private.	10	....	100
Dover	Elm st.	Cambridge line	Public.	40	940	....
Dow	North st.	Easterly	Private.	40	....	645
Downer place	Downer st.	B. & L. R. R.	Private.	20	....	125
Downer	Nashua st.	Southeasterly	Private.	20	....	120
Dresden circle	Cutter ave.	Westerly	Private.	30	....	133
Durham	Beacon st.	Hanson st.	Private.	40	....	450
Earle	South st.	Fitchburg R. R.	Private.	30	....	500
East Albion	E. of Moreland st	Medford line	Private.	40	....	490
Eastman place	Highland ave.	Southwesterly	Private.	40	....	300
East Newton	Prospect st.	Webster ave.	Public.	25	470	....
*Edgeworth	Mystic ave.	Melrose st.	Private.	50	....	1,380
Edmands	Broadway	Southwesterly	Private.	40	....	525
Electric ave.	Curtis st.	Packard ave.	Public.	40	681	....
Eliot	Vine st.	Park st.	Public.	40	260	....

*Proposed

TABLE SHOWING THE LOCATION, LENGTH AND WIDTH OF
PUBLIC AND PRIVATE STREETS.—*Continued.*

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public	Private.
Ellington road	Highland ave.	Northeasterly	Private.	35	....	120
Ellington road	West st.	Northwesterly	Private.	30	....	405
Ellsworth	Cross st.	Rush st.	Public.	40	210	....
Elm court	Villa ave.	Northwesterly	Private.	18	....	70
Elm place	Harvard st.	East'ly & West'ly	Private.	30	....	400
Elm	Somerville ave.	Cherry st.	Public.	63	1,500	....
Elm	Cherry st.	White st.	Public.	63 to 60	330	....
Elm	White st.	Banks st.	Public.	60	660	....
Elm	Banks st.	Beech st.	Public.	60 to 77.5	290	....
Elm	Beech st.	Tenney st.	Public.	77.5 to 60	570	....
Elm	Tenney st.	Medford line	Public.	60	4,300	....
Elmwood	Holland st.	Cambridge line	Private.	40	....	970
Elston	Elm st.	Summer st.	Public.	40	396	....
Emerson	Everett st.	Newton st.	Private.	30	....	170
Emery	Fitchburg R. R.	South st.	Private.	30	....	530
Endicott ave.	Broadway	Southwesterly	Private.	40	....	800
Essex	Medford st.	Richdale ave.	Public.	40	232	....
Eustis court	Beacon st.	Southwest	Private.	30	....	150
Everett	Webster ave.	Newton st.	Private.	30	....	350
Everett ave.	Cross st.	Dana st.	Public.	40	800	....
Evergreen ave.	Marshall st.	Sycamore st.	Public.	40	1,320	....
Evergreen sq.	Porter st.	Southeasterly	Private.	8	....	200
Fairlee	Cherry st.	Northwesterly	Private.	30	....	150
Fairmount ave.	Curtis st.	Northwesterly	Private.	40	....	700
Fanning ave.	Highland ave.	Lexington ave.	Public.	50	376	....
Farragut ave.	Broadway	Southwesterly	Private.	40	....	840
Fenwick	Broadway	Heath st.	Public.	40	340	....
Fisk ave.	Hinckley st.	Lowell st.	Private.	20 and 25	....	460
Fitchburg ct.	Fitchburg st.	Southeasterly	Private.	10	....	225
Fitchburg	Linwood st.	B. & L. R. R.	Private.	40	....	400
Fitchburg	Linden st.	Easterly	Private.	20	....	300
Flint ave.	Flint st.	Northerly	Private.	40	....	200
Flint	Franklin st.	Aldrich st.	Public.	40	1,773	....
Florence	Washington st.	Perkins st.	Public.	40	1,280	....
Folger	Broadway	Fairmount ave.	Private.	40	....	280
Forrest	Beacon st.	Cambridge line	Public.	40	150	....
Forster	Sycamore st.	Central st.	Private.	30	....	430
Fosket	Willow ave.	Liberty ave.	Private.	40	....	670
Fountain ave.	Cross st.	Glen st.	Private.	30	....	550
Francesca ave.	Elm st.	Liberty ave.	Public.	40	762	....
Francis'	Porter st.	Conwell st.	Private.	30	....	180
Franklin ave.	Washington st.	Franklin st.	Private.	20	....	500
Franklin ct.	Somerville ave.	B. & L. R. R.	Private.	....	....	200
Franklin place	Franklin st.	Southeasterly	Private.	15	....	100
Franklin	Broadway	Northerly	Private.	40	....	120
Franklin	Broadway	Washington st.	Public.	40+	2,230	....
*Frederick ave.	Willow ave.	Cedar st.	Private.	45	....	1,360
Fremont	Main st.	Near Mystic ave.	Private.	40	....	1,397
Fremont ave.	Parker st.	East'ly & West'ly	Private.	30	....	235
Frost ave.	Somerville ave.	Dane st.	Private.	35	....	550
Garden court	Somerville ave.	Fitchburg R. R.	Private.	25	....	370
Garfield ave.	Broadway	Mystic ave.	Private.	40	....	1,150
Garrison ave.	Broadway	Southwesterly	Private.	40	....	850
George	Broadway	Lincoln ave.	Private.	40	....	350
Gibbens	Central st.	Benton ave.	Public.	40	492	....
Giles place	Walnut st.	Northwesterly	Private.	32.71	....	168
Gill's court	Franklin st.	Westerly	Private.	10	....	100
Gilman	Cross st.	Walnut st.	Public.	40	1,430	....
Gilman terrace	Pearl st.	Northeasterly	Private.	40	....	360
Glass House ct.	Webster ave.	Easterly	Private.	40	....	200

*Proposed.

TABLE SHOWING THE LOCATION, LENGTH AND WIDTH OF
PUBLIC AND PRIVATE STREETS.—*Continued.*

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Glen	Broadway	Tufts st.	Public.	40	2,300	....
Glendale ave.	Cameron ave.	Yorktown st.	Private.	40	....	410
Glover circle	Meacham st.	Southeasterly	Private.	20	....	110
Gordonia road	Summer st.	Charnwood road	Private.	40	....	263
Gorham	Holland st.	Howard st.	Public.	40	763	....
Gould ave.	Porter st.	Southeasterly	Private.	16	....	156
Grand View ave.	Walnut st.	Vinal ave.	Public.	40	470	....
Granite	Somerville ave.	Osgood st.	Private.	40	....	400
Grant	Broadway	Mystic ave.	Private.	40	....	1,350
Greene	Summer st.	Laurel st.	Public.	40	555	....
Greenville	Medford st.	High st.	Public.	40	660	....
Greenwood ter.	Beacon st.	Northeasterly	Private.	25	....	165
Grove	Elm st.	Morrison st.	Public.	40	985	....
Hadley ct.	Franklin st.	Westerly	Private.	20	....	150
Hall	Cedar st.	Cherry st.	Private.	30	....	350
Hall ave.	Elm st.	Liberty ave.	Public.	40	926	....
Hamlet	Highland ave.	Southwesterly	Private.	30	....	400
Hammond	Dickinson st.	Concord ave.	Private.	40	....	273
Hancock	Elm st.	Summer st.	Public.	40	781	....
Hanson ave.	Hanson st.	Easterly	Private.	30	....	252
Hanson	Washington st.	Vine st.	Private.	35	....	750
Harding	South st.	Cambridge line	Private.	30	....	115
Harris	Beacon st.	Cambridge line	Private.	35	....	150
Harrison	Ivaloo st.	Kent st.	Public.	40	644	....
Harrison	Elmwood st.	Southeasterly	Private.	40	....	210
Harvard	Summer st.	Beech st.	Public.	40	650	....
Harvard place	Harvard st.	Westerly	Private.	35	....	200
Hathorn	Broadway	Arlington st.	Public.	40	330	....
Hawkins	Somerville ave.	Washington st.	Public.	40	330	....
Hawthorne	Willow ave.	Cutter ave.	Private.	30	....	810
Hayden terrace	Linden ave.	Easterly	Private.	20	....	120
Heath	Temple st.	Bond st.	Public.	45	1,043	....
Heath	Bond st.	Moreland st.	Private.	45	....	750
Henderson	Richardson st.	B. & L. R. R.	Private.	20	....	535
Hennessey ct.	Medford st.	Fisk ave.	Private.	20	....	250
Henry ave.	Highland ave.	Lexington ave.	Private.	40	....	290
Herbert	Chester st.	Day st.	Public.	40	360	....
Hersey	Berkeley st.	Oxford st.	Private.	40	....	230
Highland ave.	Medford st.	Davis sq.	Public.	60	9,100	....
Hillside ave.	Pearl st.	Southwesterly	Private.	30	....	150
Hillside park	Walnut st.	Northwesterly	Private.	40	....	245
Hinckley	Broadway	Lawrence st.	Private.	30	....	430
Hodgdon place	Dane ct.	Northeasterly	Private.	about 20	....	150
Holland	Davis sq.	Broadway	Public.	60	2,650	....
Holt court	Wyatt st.	Westerly	Private.	10	....	70
Holt's ave.	Oak st.	Southeasterly	Private.	10	....	100
Homer square	Bonner ave.	Northwesterly	Private.	30+	....	200
Horace	South st.	Fitchburg R. R.	Private.	30	....	510
Houghton	Oak st.	Springfield st.	Public.	40	204	....
Houghton	Springfield st.	Prospect st.	Private.	40	....	546
Howard	Thorndike st.	Gorham st.	Private.	40	....	430
Howard	Whipple st.	Willow ave.	Private.	30	....	255
Howe	Marshall st.	School st.	Public.	40	445	....
Hudson	Central st.	Cedar st.	Public.	40	2,760	....
Hunting	South st.	Cambridge line	Private.	30	....	125
Ibbetson	Somerville ave.	Lowell st.	Private.	40	....	803
Irving	Holland st.	Broadway	Public.	40	1,180	....
Ivaloo	Beacon st.	Park st.	Public.	40	650	....

TABLE SHOWING THE LOCATION, LENGTH AND WIDTH OF
PUBLIC AND PRIVATE STREETS.—*Continued.*

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Jackson	Medford st.	Maple st.	Private.	30	....	150
James	Pearl st.	Veazie st.	Public.	40	320	....
Jaques	Chauncey ave.	Temple st.	Public.	40	1,200	....
Jaques	Temple st.	Bond st.	Public.	45	1,050	....
*Jasper	Pearl st.	Gilman st.	Private.	40	....	300
Jay	Holland st.	Howard st.	Private.	40	....	525
Jenny Lind ave.	Vernon st.	Broadway	Public.	40	1,507	....
Jerome ct.	Sycamore st.	Jerome st.	Private.	10	....	150
Jerome	Montrose st.	Jerome ct.	Private.	20	....	125
Joseph	Newton st.	Northwesterly	Public.	40	385	....
Josephine ave.	Morrison ave.	Broadway	Private.	45	....	1,715
Joy	Washington st.	Poplar st.	Private.	30	....	1,150
Joy St. place	Joy st.	Southwesterly	Private.	30	....	175
Kensington ave.	Broadway	Blakeley ave.	Private.	40	....	440
Kent ct.	Kent st.	Northerly	Private.	about 25	....	420
Kent	Somerville ave.	Fitchburg R.R.	Private.	40	....	300
Kent	Fitchburg R.R.	Beacon st.	Private.	25	....	400
Kenwood	Elm st.	Billingham st.	Public.	40	322	....
Kidder ave.	Elm st.	Liberty ave.	Public.	40	625	....
Kidder ave.	Liberty ave.	Willow ave.	Private.	40	....	655
Kilby	Somerville ave.	Southwesterly	Private.	20	....	180
Kimball	Lowell st.	Craigie st.	Private.	40	....	303
Kingman ct.	Washington st.	Fitchburg R.R.	Private.	25	....	400
Kingston	Meacham st.	Campbell pk.	Public.	40	628	....
Knapp	School st.	Granite st.	Public.	40	379	....
Knowlton	Oliver st.	Tufts st.	Private.	40	....	925
Lake	Hawkins st.	Church st.	Public.	40	860	....
Lamson ct.	Linwood st.	Poplar st.	Private.	20	....	370
Landers	School st.	Westerly	Private.	40	....	280
Laurel ave.	Laurel st.	Northwesterly	Private.	18	....	125
Laurel	Somerville ave.	Summer st.	Public.	40	940	....
Lawrence	Hinckley st.	B. & L. R. R.	Private.	35	....	650
Lawrence	Boston ave.	Southwesterly	Private.	35	....	710
Lawson terrace.	Putnam st.	Easterly	Private.	5	....	200
Lee	Medford st.	Richdale ave.	Public.	40	385	....
Leland	Washington st.	Northeasterly	Private.	40	....	250
Leon	Concord ave.	Dickinson st.	Public.	40	155	....
Leonard place	Joy st.	Northeasterly	Private.	13+	....	98
Lesley ave.	Highland ave.	Lexington ave.	Private.	40	....	333
Leslie place	Highland ave.	Northerly	Private.	12	....	75
Lester terrace	Meacham st.	Northwesterly	Private.	20	....	190
Lexington ave.	Willow ave.	Cedar st.	Private.	50	....	1,360
Liberty ave.	Appleton st.	Broadway	Private.	40	....	1,495
Lincoln ave.	Lincoln st.	Mt. Vernon st.	Private.	40	....	450
Lincoln place	Lincoln ave.	Northerly	Private.	9	....	120
Lincoln	Broadway	Perkins st.	Public.	40	550	....
Linden	Somerville ave.	Fitchburg R. R.	Private.	30	....	705
Linden ave.	Elm st.	Summer st.	Public.	45	1,050	....
Linden ave.	Summer st.	Northeasterly	Private.	45	....	250
Linden place	Linden ave.	Northwesterly	Private.	20	....	160
Line	Washington st.	Cambridge line	Private.	33	....	1,750
Linehan ct.	Linwood st.	Chestnut st.	Private.	about 15	....	200
Linwood place	Linwood st.	Southwesterly	Private.	about 12	....	150
Linwood	Somerville ave.	Washington st.	Public.	50	2,050	....
London	Linwood st.	B. & L. R. R.	Private.	40	....	340
Loring	Somerville ave.	Northeasterly	Private.	40	....	400
Louisburg pl.	Autumn st.	Easterly	Private.	13	....	90
Lovell	Broadway	Electric ave.	Private.	40	....	385
Lowell	Somerville ave.	Highland ave.	Private.	33+	....	2,190
Lowell	Highland ave.	Albion st.	Public.	40	390	....
Lowell	Albion st.	L. & A. Br'ch R.R.	Private.	40	....	540
Lowell	B. & L. R. R.	Vernon st.	Private.	33+	....	60
Lowell	Vernon st.	Medford st.	Public.	40	1,141	....
Lowden	Broadway	Fosket st.	Private.	40	....	1,205

*Proposed.

TABLE SHOWING THE LOCATION, LENGTH AND WIDTH OF
PUBLIC AND PRIVATE STREETS. — *Continued.*

STREET.	FROM	TO	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Madison	School st.	Sycamore st.	Public.	40	891	....
Main	Broadway	Medford line	Public.	50	950	....
*Malden	Mystic ave.	Melrose st.	Private.	50	....	1,360
Mallet	Willow ave.	Liberty ave.	Private.	40	....	580
Malloy ct.	Somerville ave.	Merriam ave.	Private.	30	....	255
Malvern ave.	Cameron ave.	Yorktown st.	Private.	40	....	410
Mansfield	Somerville ave.	Washington st.	Private.	40	....	730
Maple ave.	School st.	Southeasterly	Private.	40	....	300
Maple	Poplar st.	Jackson st.	Private.	30	....	470
Maple place	Marshall st.	Maple ave.	Private.	5	....	125
Marion	Concord ave.	Adrian st.	Private.	40	....	170
Marshall	Broadway	Pearl st.	Public.	40	1,650	....
Mason ave.	Orchard st.	Cambridge line	Private.	35	....	220
May place	Hawkins st.	Easterly	Private.	12	....	100
McCulphie place	Medford st.	Easterly	Private.	10	....	110
McGregor place	Wigglesworth st	Walnut st.	Private.	about 10	....	250
Meacham	Arlington B.R.R.	Cambridge line	Public.	40	658	....
Meacham	Mt. Vernon ave.	Medford line	Private.	40	....	800
Mead	Cameron ave.	Moore st.	Private.	40	....	340
Medford	Cambridge line	Central st.	Public.	50	8,150	....
Medford	Central st.	Broadway	Public.	55	1,950	....
Melburn place	Summer st.	Northeasterly	Private.	30	....	125
Melledew ct.	Belmont st.	Easterly	Private.	15	....	137
Melrose	Mystic ave.	Middlesex ave.	Private.	50	....	2,310
Melvin	Broadway	Bonair st.	Private.	40	....	487
Merriam ave.	Merriam st.	Malloy ct.	Private.	15	....	255
Merriam	Somerville ave.	Charlestown st.	Private.	30	....	500
Middlesex ave.	Mystic ave.	Medford line	Public.	60	3,400	....
Milk St. place.	Somerville ave.	Southwesterly	Private.	about 30	....	100
Miller	Sacramento st.	Northwesterly	Private.	33	....	350
Miner	Vernon st.	Ames st.	Public.	40	244	....
Mondamin ct.	Ivaloo st.	Harrison st.	Private.	25	....	250
Montgomery av.	Broadway	Wellington ave.	Public.	40	265	....
Montrose ct.	Montrose st.	B. & L. R. R.	Private.	12	....	110
Montrose	School st.	Sycamore st.	Public.	40	886	....
Moore	Holland st.	Mead st.	Public.	40	695	....
Moreland	Main st.	Mystic ave.	Private.	40	....	1,513
Morgan	Beacon st.	Park st.	Public.	40	....	350
Morrison ave.	Willow ave.	Cedar st.	Private.	50	....	1,366
Morrison place	Morrison st.	Northerly	Private.	20	....	190
Morrison place	Morrison pl.	Easterly	Private.	15	....	175
Morrison	Willow ave.	Elm st.	Public.	40	1,700	....
Mortimer place	Marshall st.	Southeasterly	Private.	20	....	150
Morton	Glen st.	Knowlton st.	Private.	40	....	285
Mossland	Somerville ave.	Elm st.	Public.	40	350	....
Mountain ave.	Linden ave.	Porter st.	Private.	22	....	310
Mousal place	North Union st.	B. & M. R. R.	Private.	20	....	200
Mt. Pleasant ave.	Curtis st.	Northwesterly	Private.	40	....	700
Mt. Pleasant ct.	Perkins st.	Southwesterly	Private.	40	....	260
Mt. Pleasant	Broadway	Perkins st.	Public.	33	570	....
Mt. Vernon ave.	Main st.	Meacham st.	Private.	50	....	800
Mt. Vernon	Washington st.	Pearl st.	Public.	40	600	....
Mt. Vernon	Pearl st.	Perkins st.	Public.	50	450	....
Mt. Vernon	Perkins st.	Broadway	Public.	40	600	....
Monmouth	Central st.	Westerly	Public.	40	267	....
Monmouth	End of above	Harvard st.	Private.	35	....	200
Munroe	Walnut st.	Easterly	Public.	40	375	....
Munroe	End of above	Boston st.	Private.	50	....	1,100
Murdock	Cedar st.	Clyde st.	Private.	30	....	900
Murray	Washington st.	Southerly	Private.	30	....	250
Museum	Beacon st.	Cambridge line	Private.	40	....	170

* Proposed.

TABLE SHOWING THE LOCATION, LENGTH AND WIDTH OF
PUBLIC AND PRIVATE STREETS.— *Continued.*

STREET.	FROM	TO	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Myrtle ct.	Myrtle st.	Easterly	Private.	10	....	100
Myrtle	Washington st.	Perkins st.	Public.	40	1,400	....
Mystic ave.	Charlest'wn line	Union st.	Public.	60	350	....
Mystic ave.	Union st.	Medford line	Public.	66	6,900	....
Mystic	Washington st.	Somerville ave.	Public.	40	360	....
Mystic	Benedict st.	Mystic ave.	Private.	40	....	330
Nashua	Richardson st.	B. & L. R. R.	Private.	35	....	640
Nevada ave.	Village st.	Hanson st.	Private.	20	....	200
Newberne	Appleton st.	Morrison st.	Public.	40	200	....
Newbury	Holland st.	Cambridge line	Public.	40	1,250	....
Newman place	Cedar st.	Southeasterly	Private.	10+	....	100
Newton place	Newton st.	Easterly	Private.	about 10	....	100
Newton	Webster ave.	Concord ave.	Public.	40+	650	..
Norfolk	Webster ave.	Cambridge line	Public.	40	200	....
North	Broadway	Medford line	Public.	40	2,550	....
North Union	Mystic ave.	Northeasterly	Private.	30	....	600
Norton	Nashua st.	Southeasterly	Private.	20	....	200
Norwood ave.	Broadway	Medford st.	Public.	40	350	....
Oak	Prospect st.	Angle	Public.	40	670	....
Oak	Angle	Cambridge line	Private.	30	....	530
Oak St. place	Oak st.	Northerly	Private.	4	....	85
Oakland ave.	Marshall st.	School st.	Public.	40	440	....
Olive ave.	Linden ave.	Southeasterly	Private.	25	....	155
Olive sq.	Lake st.	Southerly	Private.	about 15	....	100
Oliver	Franklin st.	Cross st.	Public.	40	1,050	....
Orchard	Cambridge line	Meacham st.	Public.	40	1,625	....
Osgood	Granite st.	East'ly & West'ly	Private.	40	....	450
Otis	Cross st.	Wigglesworth st.	Public.	40	1,200	....
Oxford	School st.	Central st.	Private.	30+	....	1,330
Oxford	Beacon st.	Cambridge line	Public.	50	100	....
Packard ave.	Broadway	Medford line	Private.	60	....	2,000
Palmer ave.	Franklin st.	Northwesterly	Private.	20	....	200
Park ave.	Elm st.	Wallace st.	Public.	40	450	....
Park place	Laurel st.	Easterly	Private.	30	....	220
Park place	Park pl.	Northeasterly	Private.	20	....	150
Park	Somerville ave.	Beacon st.	Public.	50	1,300	....
Parker place	Porter st.	Northwesterly	Private.	20	....	150
Parker	Washington st.	Fremont ave.	Private.	35	....	200
Partridge ave.	Vernon st.	Broadway	Public.	40	1,457	....
Patten ct.	Cutter st.	Southeasterly	Private.	8	....	100
Paulina	Broadway	Holland st.	Private.	40	....	775
Pearl	Crescent st.	Mt. Vernon st.	Public.	40	300	....
Pearl	Mt. Vernon st.	Franklin st.	Public.	50	950	....
Pearl	Franklin st.	Cross st.	Public.	40	1,025	....
Pearl	Cross st.	Medford st.	Public.	50	2,475	....
Pearl terrace	Pearl st.	Northerly	Private.	23	....	161
Pearl St. place	Pearl st.	Northeasterly	Private.	20	....	200
*Pearson ave.	Morrison ave.	Boston ave.	Private.	45	....	1,300
Pearson road	Elm st.	Professors' row	Private.	40	....	1,090
Pembroke ct.	Pembroke st.	Southwesterly	Private.	25	....	130
Pembroke	Central st.	Sycamore st.	Private.	40	....	440
Pembroke place	Perkins st.	Northeasterly	Private.	20	...	200
Perkins	Franklin st.	Charlestown line	Public.	40	1,350	....
Pinckney place	Pinckney st.	Southeasterly	Private.	24	....	125
Pinckney	Washington st.	Perkins st.	Public.	40	1,170	....
Pitman	Beech st.	Spring st.	Private.	30	....	380
Pitman	Spring st.	Belmont st.	Private.	26	....	390
Pleasant ave.	Walnut st.	Vinal ave.	Public.	40	470	....
Poplar ct.	Poplar st.	Southeasterly	Private.	10	....	80
Poplar	Somerville ave.	Linwood st.	Private.	30	....	350

*Proposed.

TABLE SHOWING THE LOCATION, LENGTH AND WIDTH OF
PUBLIC AND PRIVATE STREETS.—*Continued.*

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Poplar	Linwood st.	Joy st.	Private.	35	....	300
Porter ave.	Porter st.	Northwesterly	Private.	20	....	220
Porter place	Porter st.	Northwesterly	Private.	20	....	195
Porter	Elm st.	Mountain ave.	Public.	45	1,530	...
Porter	Mountain ave.	Highland ave.	Public.	40	425	....
Prescott	Summer st.	Highland ave.	Public.	50	1,050	....
Preston	School st.	Summer st.	Public.	40	800	....
Princeton	Alpine st.	Lowell st.	Private.	40	....	650
Professors' row	Boston ave.	College ave.	Private.	50	....	460
Professors' row	College ave.	Curtis st.	Private.	40	....	1,900
Prospect	Washington st.	Cambridge line	Public.	50	2,050	...
Prospect Hill av.	Medford st.	High st.	Public.	40	450	....
Prospect place	Prospect st.	E. Newton st.	Private.	20	....	130
Putnam	Summer st.	Highland ave.	Public.	50	1,240	....
Quincy	Somerville ave.	Summer st.	Public.	40	700	....
Randolph place	Cross st.	Westerly	Private.	15	....	244
Raymond ave.	Curtis st.	North st.	Public.	40	1,345	....
Record's place	Broadway	Southwesterly	Private.	10	....	110
Reed's court	Oliver st.	Southwesterly	Private.	20	....	105
Remick court	Cutter st.	Southeasterly	Private.	10	....	100
Richardson	Lowell st.	Lawrence st.	Private.	35	....	480
Richardson ter.	Richardson st.	Northeasterly	Private.	20	....	135
Richdale ave.	School st.	Sycamore st.	Public.	40	875	....
Richmond h'l'ds.	Madison st.	Southerly	Private.	30	....	150
Roberts	Lawrence st.	Northwesterly	Private.	20	....	170
Robinson	Central st.	Bartlett st.	Public.	40	582	....
Rogers ave.	Morrison ave.	Broadway	Private.	45	....	1,700
Roseland	Beacon st.	Cambridge line	Public.	40	100	....
Rossmore	Somerville ave.	Washington st.	Public.	40	534	....
Rush	Broadway	Flint st.	Public.	40	1,400	....
Russell	Elm st.	Cambridge line	Public.	40	700	....
Sacramento	Somerville ave.	Cambridge line	Private.	40	....	600
Sanborn ave.	Warren ave.	Walnut st.	Public.	40	280	....
Sargent ave.	Broadway	Walnut st.	Public.	40	1,082	....
Sartwell ave.	Cedar st.	Cherry st.	Private.	35	....	400
Sawyer ave.	Packard ave.	Curtis st.	Private.	40	....	690
School	Somerville ave.	Highland ave.	Public.	40	1,870	....
School	Highland ave.	Broadway	Public.	50	2,500	....
Sellon place	Marshall st.	Northwesterly	Private.	12	....	120
Seven Pines av.	Cameron ave.	Cambridge line	Private.	40	....	80
Sewall court	Sewall st.	Southwesterly	Private.	25	....	190
Sewall	Grant st.	Temple st.	Public.	40	615	....
Shawmut place	Shawmut st.	Alston st.	Private.	30	....	200
Shawmut	Washington st.	Cross st.	Public.	40	550	....
Shedd	Somerville ave.	Merriam ave.	Private.	40	....	310
Sherman place	Sargent ave.	Marshall st.	Private.	10	....	250
Sherman	Somerville ave.	Frost ave.	Private.	35	....	270
Sibley court	Cutter st.	Northwesterly	Private.	10	...	100
Sibley place	Cutter st.	Northwesterly	Private.	10	....	100
Simpson ave.	Broadway	Holland st.	Private.	40	....	825
Skehan	Dane st.	Durham st.	Private.	30	....	720
Smith ave.	Beacon st.	Line st.	Private.	25+	....	200
Snow place	Belmont st.	Easterly	Private.	30	....	160
Snow place	Snow place	Northerly	Private.	25	...	100
Snow terrace	Jaques street	Southwesterly	Private.	16	....	120
Somerville ave.	E. Camb'ge line	Union sq.	Public.	75	2,300	....
Somerville ave.	Union sq.	N. Camb'ge line	Public.	70	8,800	....
South	Medford st.	Westerly	Private.	30	....	940
*Southwick ave.	Morrison ave.	Boston ave.	Private.	40	....	990
Spring court	Somerville ave.	Westerly	Private.	20	....	200

* Proposed.

TABLE SHOWING THE LOCATION, LENGTH AND WIDTH OF
PUBLIC AND PRIVATE STREETS.—*Continued.*

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Spring	Somerville ave.	Summer st.	Public.	40	1,200	....
Springfield	Concord ave.	Cambridge line	Public.	40	800	....
Spring Hill ter.	Highland ave.	Belmont st.	Private.	20	...	670
Stanford terrace	Beacon st.	Northeasterly	Private.	20	....	200
Stickney ave.	Marshall st.	School st.	Public.	40	458	....
St. James ave.	Elm st.	Summer st.	Public.	40	488	....
Stone ave.	Union sq.	Columbus ave.	Public.	40	676	....
Stone place	Stone av.	Southeasterly	Private.	30	....	145
Summer	Bow st.	Elm st.	Public.	45	7,700	....
Summit ave.	Walnut st.	Vinal ave.	Public.	45	470	....
Summit	Elm st.	Billingham st.	Public.	40	262	....
Sumner	Lawrence st.	Northwesterly	Private.	20	....	175
Sunnyside ave.	Walnut st.	Wigglesworth st.	Private.	35	....	250
Sycamore	Broadway	Medford st.	Public.	45	1,250	....
Sycamore	Medford st.	Richdale ave.	Private.	40	....	550
Sycamore	Richdale ave.	Highland ave.	Private.	33	....	800
Sydney	Wheatland st.	Temple st.	Private.	40	....	925
Talbot ave.	Packard ave.	College ave.	Private.	50	....	1,409
Taunton	So. Wyatt st.	Easterly to angle	Private.	30	....	170
Taunton	Angle	Marion st.	Private.	20	....	95
Taylor place	Somerville ave.	Southerly	Private.	15	....	200
Taylor	Mystic ave.	Sidney st.	Private.	40	....	310
Temple	Broadway	Mystic ave.	Public.	66	1,540	....
Tenney court	Mystic ave.	Northeasterly	Private.	30	....	400
Tennyson	Forster st.	Medford st.	Public.	40	469	....
Tennyson	Medford st.	Pembroke st.	Private.	40	....	400
Thorndike	Holland st.	Kingston st.	Private.	40	....	580
Thorpe place	Highland ave.	Southwesterly	Private.	30	....	450
Thurston	Broadway	Richdale ave.	Public.	40	1,660	....
Tower court	Tyler st.	Northeasterly	Private.	25	....	150
Tower	Crown st.	Highland ave.	Private.	40	....	550
Tremont place	Tremont st.	Southeasterly	Private.	about 10	....	75
Tremont	Webster ave.	Cambridge line	Public.	40	589	....
Trull	Vernon st.	Medford st.	Public.	40	1,050	....
Trull lane	Highland ave.	Oxford st.	Private.	15	....	200
Tube Works ct.	Somerville ave.	Southwesterly	Private.	20	....	150
Tufts	Washington st.	Cross st.	Public.	40	940	....
Tyler	Vine st.	Dane st.	Public.	40	404	....
Union	Broadway	Mystic ave.	Public.	40	330	....
Union place	Linwood st.	Southwesterly	Private.	10	....	100
Veazie	Walnut st.	Bradley st.	Private.	40	....	650
Vernon	Central st.	Jenny Lind ave.	Public.	40	740	....
Vernon	Jenny Lind av.	Lowell st.	Private.	30	....	600
Victoria	Broadway	Cambridge line	Private.	40	....	1,036
Villa ave.	Winslow ave.	Arlington B. R. R.	Private.	35	....	200
Village	Dane st.	Vine st.	Private.	25	....	370
Vinal ave.	Summer st.	Highland ave.	Public.	45	1,400	....
Vinal	Richardson st.	Northeasterly	Private.	20	....	200
Vine court	Vine st.	Northwesterly	Private.	25	....	140
Vine	Somerville ave.	Hanson st.	Private.	40	....	780
Vine	Hanson st.	Beacon st.	Private.	25	....	650
Virginia	Aldrich st.	Jasper st.	Public.	40	405	....
Wade court	Cedar st.	Westerly	Private.	20	....	180
Waldo	Highland ave.	Hudson st.	Public.	40	287	....
Wallace	Holland st.	Broadway	Public.	40	1,350	....
Walnut	Bow st.	Broadway	Public.	40	3,830	....
Walter place	Walter st.	Southwesterly	Private.	40	....	222
Walter	Walnut st.	about 100 ft. N. } of Bradley st. }	Public.	40	548	....

TABLE SHOWING THE LOCATION, LENGTH AND WIDTH OF
PUBLIC AND PRIVATE STREETS.—*Continued.*

STREET.	FROM	TO	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Ward	Medford st.	Earl st.	Private.	30	...	610
Warren ave.	Union sq.	Columbus ave.	Public.	40	650	...
Warren	Medford st.	Cambridge line	Private.	30	....	100
Warwick ave.	Warwick st.	Northeasterly	Private.	15	....	150
Warwick	Cedar st.	Warwick ave.	Public.	40	655	....
Washington ave.	Washington st.	Northerly	Private.	18	....	350
Washington	Charles'n line	Franklin ave.	Public.	75	1,060	....
Washington	Franklin ave.	Fitchburg R. R.	Public.	60 to 100	3,870	...
Washington	Fitchburg R.R.	Cambridge line	Public.	60	2,380	....
Water	South st.	Northerly	Private.	25	....	250
Waterhouse	Broadway	Cambridge line	Private.	40	....	986
Waverly	Washington st.	Southerly	Private.	35	....	200
Weare	Curtis st.	Northwesterly	Private.	40	....	700
Webster ave.	Union sq.	Cambridge line	Public.	49.5	1,950	....
Webster	Franklin st.	Cross st.	Public.	40	1,000	....
Wellington ave.	Walnut st.	Montgomery ave.	Public.	40	215	....
Wellington ave.	Montgomery av.	Easterly	Private.	40	....	85
Wesley pk.	Wesley sq.	Northeasterly	Public.	40	405	....
Wesley	Pearl st.	N'theast to angle	Private.	40	....	350
Wesley	Angle	Otis st.	Private.	30	....	165
West	Broadway	Heath st.	Private.	30	....	250
West	Hawthorne st.	Arlington B.R.R.	Private.	30	....	590
Westminster	Broadway	Electric ave.	Public.	40	376	....
Weston ave.	Clarendon ave.	Broadway	Private.	40	....	525
Westwood road	Central st.	Benton ave.	Public.	40	487	....
Wheatland	Broadway	Jaqes st.	Public.	40	495	....
Wheatland	Jaqes st.	Mystic ave.	Private.	40	....	855
Wheeler	Pinckney st.	Mt. Vernon st.	Private.	40	....	269
Whipple	Hawthorne st.	Arlington B.R.R.	Private.	30	....	575
White	Elm st.	Cambridge line	Private.	20	....	300
White St. pl.	White st.	Southeasterly	Private.	20	....	200
Wigglesworth	Bonair st.	Pearl st.	Public.	40	740	....
William	Chandler st.	Elm st.	Public.	40	381	....
Williams ct.	Porter st.	Northwesterly	Private.	30	....	150
Willoughby	Central st.	Sycamore st.	Private.	30	....	400
Willow ave.	Elm st.	Broadway	Public.	50	3,440	....
Willow place	Cambridge line.	South st.	Private.	25	....	150
*Willowdale	Willow ave.	Easterly	Private.	40	....	550
Wilson ave.	Broadway	B. & L. R. R.	Private.	20	....	310
Wilton	Lowell st.	Lawrence st.	Private.	35	....	470
Windom	Elm st.	Summer st.	Public.	40	300	...
Winslow ave.	Elm st.	Grove st.	Public.	40	514	...
Winslow ave.	Grove st.	Clifton st.	Private.	40	....	572
Winter	Elm st.	Holland st.	Private.	30	....	430
Winter Hill cir.	Broadway	Northeasterly	Private.	25	....	177
Winthrop ave.	Broadway	Mystic ave.	Public.	50	1,170	....
Woodbine	Centre st.	Lowell st.	Private.	30	....	600
*Woods ave.	North st.	Alewife Brook	Private.	40	....	1,350
Woodstock	Victoria st.	Alewife Brook	Private.	40	....	415
Wyatt ct.	South Wyatt st.	Westerly	Private.	13	....	200
Wyatt (South)	Concord ave.	Northerly	Private.	40	....	400
Wyatt (North)	Washington st.	Southerly	Private.	40	....	350
Yorktown	100 ft. north of Malvern ave.	Cambridge line	Private.	40	548	....

*Proposed.

TABLE SHOWING THE LOCATION, LENGTH AND WIDTH OF
PUBLIC AND PRIVATE STREETS.—*Concluded.*

UNNAMED STREETS.

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Court	Craigie st.	Westerly	Private.	25	....	126
Court	Craigie st.	Westerly	Private.	25	....	126
Court	Craigie st.	Westerly	Private.	25	....	126
Court	Elmwood st.	Easterly	Private.	20	....	190
Court	Dane st.	Easterly	Private.	10	....	70
Court	Lowell st.	Westerly	Private.	25	....	101.
Court	Lowell st.	Westerly	Private.	25	....	101
Court	Olive ave.	Porter st.	Private.	7.5	....	156
Total.....	.....	.....	.....	.....	286,674	173,847

Public, 54.2 miles; Private, 33 miles.

REPORT
OF THE
COMMITTEE ON FIRE DEPARTMENT.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, March 10, 1897.

Referred to Committee on Printing, to be printed in the Annual Reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk*.

IN COMMON COUNCIL, March 11, 1897.

Referred to Committee on Printing, to be printed in the Annual Reports,
in concurrence.

CHAS. S. ROBERTSON, *Clerk*.

CITY OF SOMERVILLE.

IN COMMITTEE ON FIRE DEPARTMENT, }
January 1, 1897. }

TO THE CITY COUNCIL OF SOMERVILLE :—

The Committee on Fire Department presents the following report for the year ending December 31, 1896:

FIRE DEPARTMENT ACCOUNT.

CREDIT.

Appropriation		\$51,450.00
Transfer from excess and deficiency account	\$1,000.00	
Transfer from interest account	3,000.00	
Transfer from watering streets account	2,000.00	
For sale of old junk, etc.	74.62	
For bills approved in 1894 and 1895 not called for	8.10	
	<hr/>	6,082.72
Total credit		<hr/> \$57,532.72

DEBIT.

Expenditures:—

For salaries of permanent men and substitute drivers	\$27,405.27	
Salaries of call men	11,021.67	
Improvements and repairs of apparatus and vehicles	1,111.69	
<i>Amounts carried forward</i>	<hr/> \$39,538.63	<hr/> \$57,532.72

<i>Amounts brought forward</i>	\$39,538.63	\$57,532.72
Improvements and repairs of buildings and furniture, and new furniture	1,466.55	
Fire alarm telegraph—maintenance and extension	4,276.51	
New horses	1,070.00	
Hay and straw	2,004.92	
Grain and feed	928.59	
Horse shoeing	796.71	
Horse medicine and doctoring	189.30	
Harnesses and repairing same	388.75	
Hose and repairing same	1,402.80	
Fuel	1,049.53	
Gas	1,009.78	
Electric lighting	34.32	
Washing and ironing	331.23	
Water—for hydrants and buildings	4,377.47	
Ice	12.00	
Insurance	286.00	
Fire extinguishers	103.88	
Telephones, rental and tolls	192.97	
Supplies	221.45	
Incidentals	649.36	
Total debit		60,330.75
Amount overdrawn		<u>\$2,798.03</u>

FIRE STATION, WARD ONE.

CREDIT.

Unexpended balance of 1895	\$9,208.22
Appropriation for 1896	6,500.00
Lord Bros., proportional part cost of heating during construction	42.47
<i>Amount carried forward</i>	<u>\$15,750.69</u>

<i>Amount brought forward</i>	\$15,750.69	
Less transfer to Fire Alarm		
Signal Boxes account	\$1,000.00	
Less transfer to Fire Station, Ward Four, account	1,189.54	
	<u>2,189.54</u>	
Total credit		\$13,561.15

DEBIT.

Expenditures:—

Lord Brothers, contractors (balance due)	\$8,745.00	
Lord Brothers, extras	856.25	
Gould Brothers, sub-contractors for carpentry, extras	366.19	
C. W. Christian, balance due on heating apparatus	930.00	
T. M. Sargent, architects' services	434.49	
Boiler for heating water in boiler of fire engine and fixtures for same	125.00	
Setting and connecting said boiler	57.00	
Exchanging iron columns	60.00	
Wire lathing, plastering and teaming	74.00	
Iron ladder for tower	18.00	
Bronzing and covering door	69.29	
Labor on hose trough	39.00	
Electrical work	80.00	
Bolts and hinges for main doors and doors of horse stalls	182.00	
Tablet	55.25	
Gas and electric fixtures	117.25	
Cleaning windows	12.60	
<i>Amounts carried forward</i>	<u>\$12,221.32</u>	<u>\$13,561.15</u>

<i>Amounts brought forward</i>	\$12,221.32	\$13,561.15
Laying zinc	15.00	
Heating building during finishing	29.00	
Edgestones and flagging	117.39	
Concreting	175.00	
Furniture	491.39	
Horses	405.00	
Harnesses	107.05	
Total expenditure		<u>\$13,561.15</u>

FIRE STATION NO. FOUR IMPROVEMENT ACCOUNT.

CREDIT.

Appropriation	\$5,000.00	
Transfer from fire station, Ward One, account	1,189.54	
Transfer from schoolhouse, Ward Four, account	1,000.00	
Total credit		\$7,189.54

DEBIT.

Expenditures:—

Lord Brothers, contractors	\$5,000.00	
Lord Brothers, extras	532.12	
Loring & Phipps, architects' services	391.00	
Albert B. Franklin, re-arranging heating apparatus	172.00	
Connecting engine and boiler	45.55	
Stall floors	84.00	
Electric wiring	45.00	
Plumbing	80.40	
Labor on bell deck	130.70	
<i>Amounts carried forward</i>	<u>\$6,480.77</u>	<u>\$7,189.54</u>

<i>Amounts brought forward</i>	\$6,480.77	\$7,189.54
Gas connection	2.19	
Tracks, springs and bolts	173.00	
Sliding pole	25.63	
Gas fixtures	94.80	
Hinges on stall doors	42.24	
Tablet	22.60	
Window shades	22.00	
Shed on Grove street in rear of building	191.19	
Total debit		7,054.42
Balance unexpended		\$135.12

FIRE ALARM SIGNAL BOXES ACCOUNT.

CREDIT.

Appropriation—Transfer from Fire Station, Ward One, account	\$1,000.00
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DEBIT.

Expenditures:—

N. E. Gamewell Co., 13 fire signal boxes	975.00
Balance unexpended	\$25.00

LAND FOR FIRE STATION, CLARENDON HILL, WARD FOUR, ACCOUNT.

CREDIT.

Appropriation	\$2,500.00
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DEBIT.

Expenditures:—

Land on Holland and Newbury streets, containing 8,113.1 square feet	\$2,433.93
Taxes for 1896	30.27
Total debit	2,464.20
Balance unexpended	\$35.80

The new fire station, situated at the corner of Broadway and Cross street, which was commenced in 1895, was finished and accepted in behalf of the city April 27, 1896. The cost of the land, building, furniture and equipments was \$22,052.93, of which amount \$8,191.78 was paid in the year 1895. Upon the completion and occupancy of this building, the old fire station on Webster street, theretofore occupied by Hose Company No. 1, was abandoned and the building has since been sold, the land being used as a part of the site for the new schoolhouse at the corner of Webster and Rush streets.

Under authority of an order passed by the City Council June 24th, the house of Engine Company No. 4, situated at the corner of Highland avenue and Grove street, has been thoroughly repaired and improved, in accordance with plans prepared by Messrs. Loring & Phipps, architects. The work was done under a contract with Messrs. Lord Brothers, at a cost of \$7,054.42, and the building is now one of the best in the department.

By authority of an order dated November 1st a lot of land was purchased of Henry Holton, Eugene H. Ferry and Henry Holton, guardian of Frank A. Ferry, situated at the corner of Holland and Newbury streets, containing 8,113.1 square feet, for the sum of \$2,433.93, together with the taxes of 1896, which amounted to \$30.27, making a total cost of \$2,464.20. This lot was purchased in order to secure it for a fire station lot, and a building will no doubt be erected in the near future.

Thirteen new fire signal boxes have been purchased and placed in service during the year, at an expense of \$975.00.

We present herewith the report of the Chief Engineer, and recommend that it be printed with this report.

For the Committee,

L. HERBERT HUNTLEY, Chairman.

WILLIAM P. MITCHELL, Clerk.

REPORT
OF THE
CHIEF ENGINEER OF THE FIRE
DEPARTMENT.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, March 10, 1897.

Referred to Committee on Printing, to be printed in the Annual Reports. Sent down for concurrence.

GEORGE I. VINCENT, *Clerk*.

IN COMMON COUNCIL, March 11, 1897.

Referred to Committee on Printing to be printed in the Annual Reports, in concurrence.

CHAS. S. ROBERTSON, *Clerk*.

CITY OF SOMERVILLE.

OFFICE OF CHIEF ENGINEER OF THE FIRE DEPARTMENT, }
January 1, 1897. }

TO THE COMMITTEE ON FIRE DEPARTMENT:—

Gentlemen,—I herewith submit to you a report of the manual force, apparatus, and buildings, their condition, and the work performed by the Fire Department during the year 1896.

MANUAL FORCE.

One chief engineer	1
One assistant engineer	1
Three steam fire engine companies (14 men each)	42
Three hose companies (10 men each) . . .	30
Two hook and ladder companies (12 men each)	24
One chemical engine company (3 men) . .	3
	<hr/>
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Hose Company No. 1 was discontinued in the month of June and organized as an engine company, the relief engine being placed in its charge. It is now designated as Engine Company No. 2

APPARATUS.

The apparatus in service is as follows:—

At the Central Station, Medford Street.—Steam Fire Engine No. 1, capacity 800 gallons per minute, drawn by three horses; a hose wagon, drawn by two horses and carrying 900 feet of $2\frac{1}{2}$

inch hose, 2 chemical extinguishers, and 4 short ladders; a chemical engine with two tanks, the capacity of each being 50 gallons, drawn by two horses. The chief engineer's wagon, the superintendent of electric lines' wagon and the fire alarm supply wagon, each drawn by one horse, are housed at this station. It is also the headquarters of the fire alarm system.

At the Station Corner of Broadway and Cross Street.—Steam Fire Engine No. 2, capacity of 600 gallons per minute, drawn by three horses; a hose wagon, carrying 900 feet of $2\frac{1}{2}$ inch hose, two chemical extinguishers, and four short ladders, and drawn by two horses. The assistant engineer's horse and wagon are kept here. There are accommodations for additional apparatus at this station, whenever public safety requires it.

At the Station Corner of Highland Avenue and Grove Street.—Steam Fire Engine No. 4, capacity of 800 gallons per minute, drawn by three horses; a combination chemical engine and hose reel, the chemical tanks (two) having a capacity of 40 gallons each, and the reel carrying 700 feet of $2\frac{1}{2}$ inch hose. This latter piece of apparatus also carries four short ladders and is drawn by three horses.

At the Station No. 265 Highland Avenue, opposite Conwell Street.—Hook and Ladder Truck No. 2, which is equipped with 276 feet of ladders, two hand extinguishers, axes, crow-bars, and other small tools, and is drawn by three horses.

At the Station Corner of Washington and Prospect Streets.—Hook and Ladder Truck No. 1, equipped with 360 feet of ladders, a jumping canvas, a gun to fire a life line to the top of a building, axes, saws, and other small tools, and drawn by three horses. At this station is also housed Hose Wagon No. 3, with 900 feet of $2\frac{1}{2}$ inch hose, two chemical extinguishers and four short ladders, drawn by two horses.

At the Station on Marshall Street.—Hose Wagon No. 2, with 900 feet of $2\frac{1}{2}$ inch hose, two chemical extinguishers, and four short ladders, drawn by two horses.

At the Station Corner of Somerville Avenue and Lowell Street.—Hose Wagon No. 5, with 900 feet of $2\frac{1}{2}$ inch hose, two chemical extinguishers, and four small ladders, drawn by two horses.

All of this apparatus is in good condition. There is one hose carriage and one ladder truck which can be used in place of the regular apparatus whenever the latter needs repairs.

BUILDINGS.

The several buildings used by the department are in good order.

Two of the oldest will soon require new floors in the stalls.

Both the Marshall street station and the station corner of Washington and Prospect streets need new stall bottoms.

The station of Engine 4 has been thoroughly repaired and enlarged. The work was a necessity, as the second and lower floor were both liable to fall by reason of faulty construction.

Land has been purchased for a new station at West Somerville, corner of Holland and Newbury streets.

RECOMMENDATIONS.

I recommend that a hose wagon be purchased, for use with Engine 4, and that the combination hose and chemical apparatus now run with that engine be transferred to the house of Ladder 2. More apparatus is required in the West Somerville district for efficient service. The liability of loss by fire has increased more in the past few years than the means of extinguishing fire. The value of buildings west of Cedar street in 1889 was \$2,497,500, and in 1896 was \$4,984,050. The transferring of the combination and the placing of a hose wagon as above stated would be a valuable acquisition for effective work by the department.

A fire alarm bell and striker should be placed in the tower of Engine House No. 2.

I extend my sincere thanks to His Honor the Mayor and the chairman and other members of the committee on fire department for their hearty co-operation in all matters appertaining to the welfare of the department.

JAMES R. HOPKINS, Chief of Department.

FIRE ALARMS.

Bell alarms	118
Still alarms	79
Total	197

LOSS AND INSURANCE.

Loss on buildings and contents by fire	\$48,237.72
Insurance on same	143,462.09

CAUSES OF FIRE ALARMS.

Bonfire,	2
Breaking of kerosene lamp,	8
Breaking of lantern,	1
Burning of hay stack,	2
Burning of old mattress in yard,	1
Burning of rubbish,	10
Burning of waste oil on marsh land,	4
Children playing with matches,	8
Chimney fire,	2
Clothing in contact with stove,	1
Curtain in contact with gas jet,	1
Defective chimney flue,	1
Dropping of lighted matches,	4
Drying plastering,	3
Electric car on fire,	8
Explosion of boiler,	1
False alarm,	1
Fire alarm box mistaken for letter box,	1
Fire in Boston,	22
Fire in Cambridge,	4
Fire in Medford,	9
Fire-crackers on roof,	3
Fire on dump igniting building,	1
Fire on dump igniting fence,	2
Grass fires,	13
Hot ashes in wooden barrel,	3
Hot coals on floor,	4

Hot flat-iron in bed,	1
Igniting of alcohol from gas jet,	1
Igniting of Christmas-tree from candle,	1
Igniting of gas from lighted match,	1
Igniting of naphtha,	2
Igniting of rags around stovepipe,	1
Igniting of shavings around boiler,	1
Incendiary,	18
Kettle of fat boiled over,	2
Kettle of tar boiled over,	1
Overheated furnace,	3
Overheated gasoline stove,	1
Overheated oil-stove,	3
Overheated oven,	1
Overheated plumber's stove,	4
Overheated smoke-house,	1
Rain on roof mistaken for smoke,	1
Smoke mistaken for fire,	3
Smoking out rats,	1
Sparks from forge,	1
Sparks from locomotive,	7
Sparks from tobacco pipe,	3
Sparks on roof,	5
Spontaneous combustion of greasy rags,	2
Steam mistaken for fire,	1
Torch in contact with awning,	1
Unknown,	10

ROSTER OF THE FIRE DEPARTMENT.

Chief Engineer,

James R. Hopkins Residence, 27 Summit Ave.

Assistant Engineer.

Nathaniel C. Barker Residence, 12 Ellsworth Street.

ENGINE CO. No. 1.

Name.	Rank.	Occupation.	Residence.
Edward W. Ring,	Captain,	Fireman, .	Fire Station.
Frank Langer,	Lieutenant,	Wood moulder,	Trull lane.
Henry A. Byrnes,	Engineman,	Fireman,	Fire station.
Wm. A. Burbank,	Ass't Engineman,	Fireman,	Fire station.
Wm. H. Hutchins,	Driver,	Fireman,	Fire station.
Geo. F. Harris,	Driver,	Fireman,	Fire station.
Fred S. Young,	Hoseman,	Janitor,	Oxford street.
Oscar J. Lingley,	Hoseman,	Milk dealer,	Avon street.
Walter H. Young,	Hoseman,	Plumber,	Oxford street.
Benj. F. Johnson,	Hoseman,	Yardman,B.& M.	Medford street.
Sewall M. Rich,	Hoseman,	Real estate,	Medford street.
Jesse Lipsett,	Hoseman,	Cabinet maker,	Hamlet street.
Harry J. Lock,	Hoseman,	Clerk,	Gilman street.

ENGINE CO. No. 2.

Name.	Rank.	Occupation.	Residence.
Thomas H. Daley,	Captain,	Fireman,	Fire station.
John Frizzell,	Lieutenant,	Painter,	Everett avenue.
Clarence V. Cook,	Engineman,	Fireman,	Fire station.
John W. Bartlett,	Ass't Engineman,	Fireman,	Fire station.
Arthur C. Sellon,	Driver,	Fireman.	Fire station.
Louis E. Seymour,	Driver,	Fireman.	Fire station.
Wm. J. Logan,	Hoseman,	Painter,	Ellsworth st.
Geo. E. Varnum,	Hoseman,	Painter,	Ellsworth st.
Robert Geaton,	Hoseman,	Painter,	Cross street.
Joseph Lord,	Hoseman,	Milkman,	Chauncy ave.
Edward W. Burgess,	Hoseman,	Pedlar,	Otis street.
Cornelius A. Doherty,	Hoseman,	Milkman,	Glen street.

ENGINE CO. No. 4.

Name.	Rank.	Occupation.	Residence.
Samuel H. Stevens,	Captain,	Fireman,	Fire station.
Danforth S. Steele,	Lieutenant,	Cabinet maker,	Highland ave.
Lindorf D. Bixby,	Engineman,	Fireman,	Fire station.
John Gillooly,	Ass't Engineman,	Fireman,	Fire station.
Chas. H. Stearns,	Driver,	Fireman,	Fire station.
Arthur M. Gilman,	Hoseman,	Fireman,	Fire station.
Eugene H. Jones,	Hoseman,	Lineman,	Chandler st.
John F. Burton,	Hoseman,	Painter,	Highland ave.
James J. King,	Hoseman,	Painter,	Elm court.
Joseph A. Saunders,	Hoseman,	Teamster,	Holland street.
Geo. C. Creighton,	Hoseman,	Type founder,	Cutter avenue.
John B. Rufer,	Hoseman,	Blacksmith,	Holland street.

HOOK AND LADDER CO. No. 1.

Name.	Rank.	Occupation.	Residence.
Melvin B. Ricker,	Captain,	Fireman,	Fire station.
Horace P. Ewell,	Lieutenant,	Carpenter,	Washington st.
Richard F. Clarkson,	Driver,	Fireman,	Fire station.
Wm. A. McLane,	Ladderman,	Engineer,	Clark street.
Patrick J. Fallon,	Ladderman,	Upholsterer,	School street.
James M. Gould,	Ladderman,	Printer,	Flint street.
James D. Perkins, Jr.,	Ladderman,	Paper hanger,	Lake street.
Martin S. Lacey,	Ladderman,	Painter,	Somerville ave.
Geo. A. Page,	Ladderman,	Laborer,	Webster ave.
James E. Thompson,	Ladderman,	Laborer,	Rush street.
Luther F. Bickers,	Ladderman,	Painter,	Adrian st.
Henry J. Turner,	Ladderman,	Teamster,	Somerville ave.
Geo. R. Dale,	Ladderman,	Laborer,	Walnut street.

HOOK AND LADDER CO. No. 2.

Name.	Rank.	Occupation.	Residence.
Irving C. Jackson,	Captain,	Fireman,	Fire station.
Chas. E. Shaw,	Lieutenant,	Paper hanger,	Highland ave.
Wm. H. Whitcomb,	Driver,	Fireman,	Fire station.
John E. Hill,	Ladderman,	Shipper,	Cherry street.
Geo. F. Hughes,	Ladderman,	Painter,	Alpine street.
Clarence H. Alley,	Ladderman,	Carpenter,	Highland ave.
Harry H. Whicher,	Ladderman,	R. R. Agent,	Cottage ave.
Thomas McNee,	Ladderman,	Slater,	School street.
Harry F. Bucknam,	Ladderman,	Plasterer,	Highland ave.
Fred W. Merrill,	Ladderman,	Electrician,	Elm street.
Harry W. Ewell,	Ladderman,	Carpenter,	Cedar street.

HOSE CO. No. 2.

Name.	Rank.	Occupation.	Residence.
Francis W. Ring,	Captain,	Teamster,	Wheatland st.
Daniel R. Spike,	Lieutenant,	Janitor,	Broadway.
Henry Angier,	Driver,	Fireman,	Fire station.
Chas. H. Timson,	Hoseman,	Expressman,	Marshall st.
Wm. F. Marble,	Hoseman,	Fishman,	Derby street.
Almon Irish,	Hoseman,	Clerk,	Sargent ave.
Melville Webber,	Hoseman,	Teamster,	Jacques street.
Edwin R. Perham,	Hoseman,	Expressman,	Marshall st.
Harry V. Spike,	Hoseman,	Teamster,	Broadway.
Chas. A. Woodbury,	Hoseman,	Teamster,	Jacques street.

HOSE CO. No. 3.

Name.	Rank.	Occupation.	Residence.
Benj. H. Pond,	Captain,	Fireman,	Fire station.
Frank. L. Draper,	Lieutenant,	Lineman,	Chester ave.
Chas. H. Bridges,	Hoseman,	Machinist,	Medford street,
Francis S. Brown,	Hoseman,	Watchman,	Columbus ave.
Thomas W. Joy,	Hoseman,	Cooper,	Mystic street.
John H. Cuddy,	Hoseman,	Laborer,	Bow st. place.
Alfred R. Higgins,	Hoseman,	Cooper,	Prospect st.
Edward A. Parker,	Hoseman,	Carpenter,	Oxford street.
Wm. H. Wheaton,	Hoseman,	Steam fitter,	Somerville ave.

HOSE CO. No. 5.

Name.	Rank.	Occupation.	Residence.
Edwin F. Trefren,	Captain,	Fireman,	Fire station.
Wm. J. Blaisdell,	Lieutenant,	Painter,	Quincy street.
Martin E. Driscoll,	Hoseman,	Painter,	Beacon street.
Fred'k G. Jones,	Hoseman,	Painter,	Somerville ave.
Daniel W. McDermott,	Hoseman,	Painter,	Somerville ave.
Henry C. Page,	Hoseman,	Casket maker,	Miller street.

CHEMICAL ENGINE A.

Name.	Rank.	Occupation.	Residence.
Benj. W. Daley,	Lieutenant,	Fireman,	Fire station.
Joseph Cribby,	Driver,	Fireman,	Fire station.
Wilfred S. Young,	Substitute h'sem'n,	Fireman,	Fire station.

SERVICE OF ENGINE CO. No. 1.

Hose laid	11,650 ft.	
Miles run	254	
Ladders used	185 ft.	
Bell alarms answered		118
Still alarms answered,		6
Total		<u>124</u>

SERVICE OF ENGINE CO. No. 2.

Hose laid	9,850 ft.	
Miles run	274	
Ladders used	230 ft.	
Bell alarms answered		118
Still alarms answered		20
Total		<u>138</u>

SERVICE OF ENGINE CO. No. 4.

Hose laid	10,400 ft.	
Miles run	135½	
Bell alarms answered		118
Still alarms answered		13
Total		<u>131</u>

SERVICE OF LADDER CO. No. 1.

Miles run	121	
Ladders used	3,210 ft.	
Bell alarms answered		118
Still alarms answered		6
Total		<u>124</u>

SERVICE OF LADDER CO. No. 2.

Miles run	129	
Ladders used	1,244 ft.	
Bell alarms answered		118
Still alarms answered		4
Total		<u>122</u>

SERVICE OF HOSE CO. No. 2.

Miles travelled	154	
Ladders used	295 ft.	
Hose used	9,850 ft.	
Bell alarms answered		118
Still alarms answered		8
Total		<u>126</u>

SERVICE OF HOSE CO. No. 3.

Miles run	79	
Ladders used	75 ft.	
Hose laid	15,450 ft.	
Bell alarms answered		118
Still alarms answered		6
Total		<u>124</u>

SERVICE OF HOSE CO. No. 5.

Miles run	143	
Ladders used	213 ft.	
Hose laid	11,500 ft.	
Bell alarms answered		118
Still alarms answered		6
Total		<u>124</u>

SERVICE OF CHEMICAL CO. A.

Chemical hose used	16,500 ft.	
Miles run	262 $\frac{3}{4}$	
Tanks used	91	
Ladders used	763 ft.	
Bell alarms answered		118
Still alarms answered		10
Total		<u>128</u>

REPORT
OF THE
COMMITTEE ON FUEL AND STREET
LIGHTS.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, February 24, 1897.

Referred to Committee on Printing, to be printed in the Annual Reports. Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, February 24, 1897.

Referred to Committee on Printing, to be printed in the Annual Reports, in concurrence.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

IN COMMITTEE ON FUEL AND STREET LIGHTS, }
January 1, 1897. }

To the City Council of Somerville:—

The following is the final report of the Committee on Fuel and Street Lights for the year ending December 31, 1896:—

SCHOOL FUEL ACCOUNT.

CREDIT.

Appropriation	\$10,000.00
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DEBIT.

Expenditures:—

For fuel at Beach Street School .	\$82.07	
Luther V. Bell School .	484.24	
Bennett School . . .	117.55	
Bingham School . . .	321.72	
Burns School . . .	173.41	
Cedar Street School . .	43.56	
Cummings School . .	152.63	
Davis School . . .	180.88	
George W. Durell School .	167.24	
Edgerly School . .	685.42	
<i>Amounts carried forward .</i>	<u>\$2,408.72</u>	<u>\$10,000.00</u>

<i>Amounts brought forward</i>	\$2,408.72	\$10,000.00
Forster School	617.63	
Franklin School	128.83	
Jacob T. Glines School	685.20	
Harvard School	23.18	
High School	1,749.71	
Highland School	678.22	
William H. Hodgkins School	311.66	
Jackson School	158.92	
O. S. Knapp School	1,032.24	
Lincoln School	270.47	
Morse School	706.47	
Charles G. Pope School	626.12	
Prescott School	437.74	
Prospect Hill School	126.51	
Incidentals	14.31	
Total debit		\$9,975.93
Balance unexpended		\$24.07

STREET LIGHTS ACCOUNT.

CREDIT.

Appropriation	\$47,000.00
Receipts, for old lamp posts	27.40
Total credit	\$47,027.40

DEBIT.

Expenditures:—

For electric lighting	\$47,087.60
Changing location of electric lights	33.00
Incidentals	88.95
Total debit	\$47,209.55
Amount overdrawn	\$182.15

SCHOOL FUEL.

By an order, adopted June 24th, 1896, this committee was authorized to make a contract with Mr. I. L. Smith, for furnishing fuel for the schoolhouses and public buildings of the city, at prices as follows:—For furnace, egg, and stove coal, \$3.97 per ton; soft wood, per cord, \$5.50; hard wood, per cord, \$6.75; and the fuel has been furnished under the authority of said order.

STREET LIGHTS.

The number of street lights in the city, January 1, 1896, was 557,—349 arc and 208 incandescent electric lights. Nine arc lights have been added during the year, and two incandescent lights have been placed on Boston avenue to take the place of the oil lamps which were discontinued in 1896. One incandescent light has also been placed on Harvard street, between Elm place and Beach street.

The following table shows the number of lights in the city January 1, 1897:—

	Arc Electric Lights.	Incandescent Electric Lights.	Totals.
In the city January 1, 1896	349	208	557
Erected during the year	9	3	12
	358	211	569

For the Committee,

ROBERT S. WRIGHT, Chairman.

WILLIAM P. MITCHELL, Clerk.

REPORT
OF THE
SUPERINTENDENT OF LIGHTS.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, January 13, 1897.

Referred to Committee on Printing, to be printed in the annual reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk*.

IN COMMON COUNCIL, January 13, 1897.

Referred to Committee on Printing, to be printed in the annual reports,
in concurrence.

CHAS. S. ROBERTSON, *Clerk*.

CITY OF SOMERVILLE.

CITY HALL, December 24, 1896.

To His Honor, the Mayor, and the City Council:—

Gentlemen,—I have the honor to submit herewith the annual report of the Light Department for the year ending December 31, 1896.

Nine (9) new arc lights have been added during the year, located as follows:—Central Park; Grant and Derby streets; Glen, opposite Dell street; Granite, corner of Osgood street; Porter, corner of Carver street; Tower street and Highland avenue; Laurel street; Perkins, opposite Florence street; Jenny Lind avenue.

Three (3) new incandescent lights have been added; two (2) on Boston avenue, near the Medford line, and one (1) on Harvard street, between Elm and Beach streets.

The locations of the following incandescent lights have been changed, the original territory lighted by them having been covered by arc lights. From Dell to North Union, from Porter and Carver to Williams court, from Granite to Knapp, from Laurel to Park place, from Perkins, opposite Florence, to Murray, from Florence to Alston and Shawmut, from Perkins, opposite Myrtle, to corner of Wheeler and Pinckney streets.

I have endeavored to have the electric light company fulfil their contract to the city and have found them always ready to obey my orders.

There are at present three hundred and fifty-eight (358) arc and two hundred and eleven (211) incandescent lights in use. I would recommend that more lights be added this coming year, as there are many points in the city where they are much needed.

The contract with the electric light company expires next year. It is the opinion of the superintendent of lights that the price now paid, i. e., one hundred and twenty dollars (\$120) per year for twelve hundred (1200) candle-power arc lights, is excessive. The new contract should call for a much reduced price in the cost of lights.

To the chairman and members of the fuel and lights committee I wish to extend my thanks for the courtesy shown to me during my few months of office.

Respectfully submitted,

EDWARD BACKUS,

Supt. of Lights.

REPORT
OF THE
COMMITTEE ON PUBLIC PROPERTY

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, March 10, 1897.

Referred to Committee on Printing, to be printed in the Annual Reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, March 11, 1897.

Referred to Committee on Printing, to be printed in the Annual Reports,
in concurrence.

CHAS. S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

IN COMMITTEE ON PUBLIC PROPERTY, }
January 1, 1897. }

To the City Council of Somerville: —

The Committee on Public Property presents the following report for the year 1896:—

POLICE STATION INCIDENTALS ACCOUNT.

CREDIT.		
Appropriation	\$3,000.00	
Receipts:—		
For rent of armory	300.00	
Rent of court room	600.00	
Total credit		\$3,900.00
DEBIT.		
Transfer to police account	\$1,000.00	
Expenditures:—		
For janitor's salary	850.00	
Gas	542.23	
Fuel	343.70	
Water	75.60	
Disinfectant	7.50	
Labor	28.00	
Supplies	15.97	
Repairs and improvements of building and furniture	423.86	
Total debit		3,286.86
Balance unexpended		\$613.14

SCHOOLHOUSE INCIDENTALS ACCOUNT.

CREDIT.

Appropriation	\$15,000.00	
Transfer from school contingent account	1,200.00	
Receipts:—		
For rent of land on Elm street	25.00	
Insurance on Prospect Hill schoolhouse	1,059.32	
Total credit		\$17,284.32

DEBIT.

Expenditures:—

For repairs and improvements of buildings	\$10,761.80
Furniture	1,487.42
Repairing furniture	558.39
Repairing heating and ventilating apparatus	1,648.26
Repairing blackboards	63.52
Building fence	50.99
Concrete walks	296.15
Setting edgestones	263.30
Flagstaff at High School grounds	335.75
Cleaning buildings after repairs	339.17
Teaming furniture	90.62
Water	833.70
Gas	614.66
Electric current for motor	40.85
Insurance	2,239.63
Adjusting insurance	37.50
Sewer assessment	60.00

Amount carried forward \$19,721.71

<i>Amount brought forward</i>	.	.	.	\$19,721.71	
School supplies	.	.	.	1,096.53	
Carriage hire	.	.	.	10.00	
Incidentals	.	.	.	43.60	
				<hr/>	
Total debit	.	.	.	.	20,871.84
					<hr/>
Amount overdrawn	.	.	.	.	\$3,587.52
					<hr/> <hr/>

The expenditures at the various schoolhouses were as follows:—

Beech Street.

Repairs and improvements	.	.	.	\$94.32	
Repairing furniture	.	.	.	8.90	
Repairing heating apparatus	.	.	.	109.30	
Moving furniture	.	.	.	2.25	
Gas	.	.	.	20.68	
Water	.	.	.	13.00	
Supplies	.	.	.	3.00	
				<hr/>	\$251.45

Luther V. Bell.

Repairs and improvements	.	.	.	\$794.24	
Furniture	.	.	.	4.50	
Repairing furniture	.	.	.	97.42	
Repairing heating apparatus	.	.	.	44.89	
Repairing blackboards	.	.	.	4.24	
Moving furniture	.	.	.	1.75	
Cleaning after repairs	.	.	.	109.24	
Gas	.	.	.	42.79	
Water	.	.	.	53.20	
Supplies	.	.	.	37.61	
				<hr/>	1,189.88
					<hr/>
<i>Amount carried forward</i>	.	.	.	.	\$1,441.33

Amount brought forward . . . \$1,441.33

Bennett.

Repairs and improvements . . .	\$280.37	
Furniture	112.00	
Repairing furniture	43.60	
Repairing heating apparatus . . .	24.11	
Water	23.80	
Insurance	18.00	
Supplies . . . . .	.53	
	<hr/>	502.41

Bingham.

Repairs and improvements . . .	\$222.21	
Furniture	159.61	
Repairing furniture	40.05	
Repairing heating apparatus . . .	9.02	
Repairing blackboards	41.60	
Moving furniture	4.50	
Water	51.80	
Insurance	75.00	
Supplies	9.90	
	<hr/>	613.69

Burns.

Repairs and improvements . . .	\$232.99	
Furniture	23.64	
Repairing furniture	5.00	
Repairing heating apparatus . . .	25.83	
Gas	2.00	
Water	12.60	
Insurance	75.00	
Supplies	19.75	
	<hr/>	396.81
<i>Amount carried forward</i>		<hr/> \$2,954.24

Amount brought forward \$2,954.24

Cedar Street.

Repairs and improvements . . .	\$195.03	
Repairing furniture . . .	3.00	
Water	13.00	
Insurance	24.00	
Supplies	3.69	
Sewer assessment . . .	60.00	
		<hr/>
		298.72

Cummings.

Repairs and improvements . . .	\$212.57	
Repairing furniture . . .	9.25	
Repairing heating apparatus . .	104.66	
Water	16.80	
Supplies	6.45	
		<hr/>
		349.73

Davis.

Repairs and improvements . . .	\$100.47	
Furniture	13.50	
Repairing furniture . . .	9.15	
Repairing heating apparatus . .	18.83	
Gas	3.35	
Water	28.00	
Supplies	3.20	
		<hr/>
		176.50

Durell.

Repairs and improvements . . .	\$121.23	
Repairing furniture . . .	5.00	
Repairing heating apparatus . .	22.32	
Water	19.70	
Supplies	3.85	
		<hr/>
		172.10

Amount carried forward

\$3,951.29

Amount brought forward \$3,951.29

Edgerly.

Repairs and improvements	\$422.03	
Furniture	55.49	
Repairing furniture	32.07	
Repairing heating apparatus	32.63	
Gas	39.50	
Water	14.00	
Supplies	16.72	
	<hr/>	612.44

Forster.

Repairs and improvements	\$2,813.24	
Repairing furniture	21.00	
Repairing heating apparatus	218.50	
Repairing blackboards	17.68	
Cleaning after repairs	28.20	
Gas	73.88	
Water	43.40	
Supplies	3.07	
	<hr/>	3,218.97

Franklin.

Repairs and improvements	\$277.70	
Furniture	48.50	
Repairing furniture	49.10	
Repairing heating apparatus	64.38	
Moving furniture	8.75	
Water	13.00	
Insurance	105.00	
Supplies	3.00	
	<hr/>	569.43

Amount carried forward \$8,352.13

Amount brought forward \$8,352.13

Glines.

Repairs and improvements	\$97.42	
Furniture	22.75	
Repairing furniture	11.00	
Repairing heating apparatus	3.50	
Cleaning after repairs	26.48	
Moving furniture	8.72	
Gas	5.14	
Water	28.00	
Insurance	337.50	
Supplies	10.01	
		<hr/>
		550.52

Harvard.

Repairs and improvements	\$104.19	
Repairing furniture	2.50	
Repairing heating apparatus	9.75	
Water	13.00	
Insurance	23.63	
Supplies . . . . .	.50	
		<hr/>
		153.57

English High.

Repairs and improvements	\$1,520.28	
Furniture	641.71	
Gas	68.00	
Electric current for motor	40.85	
Flagstaff	335.75	
Supplies	49.28	
		<hr/>
		2,655.87
<i>Amount carried forward</i>		<hr/>
		\$11,712.09

Amount brought forward \$11,712.09

Latin High.

Repairs and improvements	\$545.32	
Furniture	25.90	
Repairing furniture	15.00	
Repairing heating apparatus	105.98	
Gas	164.77	
Water	214.60	
Insurance	176.25	
Supplies	70.85	
	<hr/>	1,318.67

Highland.

Repairs and improvements	\$258.98	
Furniture	92.77	
Repairing furniture	9.25	
Repairing heating apparatus	59.45	
Gas	38.45	
Water	46.20	
Insurance	322.50	
Supplies	10.94	
	<hr/>	838.54

Hodgkins.

Repairs and improvements	\$84.19	
Furniture	4.50	
Cleaning after construction	171.00	
Moving furniture	49.40	
Building fence	50.99	
Insurance	320.00	
Supplies	60.60	
	<hr/>	740.68
<i>Amount carried forward</i>		<hr/> \$14,609.98

Amount brought forward \$14,609.98

Jackson.

Repairs and improvements . . .	\$163.17	
Repairing furniture . . .	36.75	
Repairing heating apparatus . .	18.12	
Moving furniture . . .	3.75	
Water	13.00	
Insurance	99.00	
Supplies	6.75	
	<hr/>	340.54

Knapp.

Repairs and improvements . . .	255.59	
Furniture	39.25	
Repairing furniture . . .	30.25	
Repairing heating apparatus . .	179.41	
Moving furniture . . .	4.25	
Concrete walks	197.30	
Setting edgestones	263.30	
Gas	28.96	
Water	15.40	
Supplies	38.22	
	<hr/>	1,051.93

Lincoln.

Repairs and improvements . . .	\$124.93	
Repairing furniture . . .	17.10	
Repairing heating apparatus . .	126.84	
Moving furniture . . .	1.00	
Supplies	12.07	
	<hr/>	281.94
<i>Amount carried forward</i>		<hr/> \$16,284.39

Amount brought forward \$16,284.39

Morse.

Repairs and improvements	\$318.42	
Furniture	29.50	
Repairing heating apparatus	183.75	
Moving furniture . . . . .	.75	
Gas	21.36	
Water	26.90	
Supplies	17.83	
	<hr/>	598.51

Pope.

Repairs and improvements	\$376.30	
Furniture	132.00	
Repairing furniture	27.25	
Repairing heating apparatus	105.56	
Moving furniture	3.25	
Gas	10.42	
Water	46.20	
Insurance	487.50	
Supplies	21.52	
	<hr/>	1,210.00

Prescott.

Repairs and improvements	\$398.33	
Furniture	31.80	
Repairing furniture	78.35	
Repairing heating apparatus	62.93	
Concrete walks	98.85	
Gas	95.36	
Water	100.00	
Insurance	176.25	
Supplies	36.77	
	<hr/>	1,078.64
<i>Amount carried forward</i>		\$19,171.54

Amount brought forward \$19,171.54

Prospect Hill.

Repairs and improvements	\$748.28	
Furniture	50.00	
Repairing furniture	7.40	
Repairing heating apparatus	118.50	
Moving furniture	6.50	
Adjusting insurance	37.50	
Water	28.10	
Supplies	14.50	
	<hr/>	1,010.78
School supplies (brushes, dusters, baskets, etc.)		635.92
Carriage hire		10.00
Incidentals		43.60
		<hr/>
Total debit		\$20,871.84
		<hr/>

SCHOOLHOUSE, ENGLISH HIGH, ACCOUNT.

CREDIT.

Appropriation \$7,000.00

DEBIT.

Expenditures: —

John Y. Mainland, balance on contract for laboratory fittings	\$1,028.30	
Wemyss Bros. & Co., carpentering and wood-working for manual training	1,489.00	
A. J. Wilkinson & Co., tools and machinery	1,369.00	
Chandler & Barber, tools	1,473.98	
James H. Roberts, shafting, etc.	337.73	
	<hr/>	
<i>Amounts carried forward</i>	\$5,698.01	\$7,000.00

<i>Amounts brought forward</i>	\$5,698.01	\$7,000.00
Holtzer-Cabot Electric Co., motor	300.00	
Connecting motor with Cam- bridge motor circuit	200.00	
Lumber	169.26	
Hardware	25.55	
Iron work	27.67	
Mason work	5.16	
Labor (carpenter work of stu- dents)	295.00	
Furniture and carpet	108.18	
Sundry expenses	14.90	
Total debit		\$6,843.73
Balance unexpended		\$156.27

SCHOOLHOUSE IN WARD FOUR, ACCOUNT.

CREDIT.

Balance unexpended December 31, 1895	\$30,479.78	
Appropriated in 1896	9,000.00	
Receipts:—		
From Frank G. Coburn & Co., for water service	15.00	
Highways account, for gravel	85.00	
Total credit		\$39,579.78

DEBIT.

Transfer to Fire Station, Ward One, account	\$1,000.00	
Expenditures:—		
Frank G. Coburn & Co., bal- ance of contract for construc- tion	\$27,163.00	
<i>Amounts carried forward,</i>	\$28,163.00	\$39,579.78

<i>Amounts brought forward</i>	\$28,163.00	\$39,579.78
Frank G. Coburn & Co., extra work	633.63	
Boston Furnace Co., contract for heating and ventilating apparatus	4,637.00	
Samuel D. Kelley, balance on architect's services	1,010.00	
F. Bryant & Co., electric wiring	397.50	
Carpenter work	68.18	
Plumbing	15.83	
Gas fixtures, service pipe and connecting meter	114.42	
Covering steam pipes with asbestos	347.92	
Iron balcony	25.00	
Furniture	2,590.99	
Window shades	134.56	
Insurance	28.00	
Grading	354.55	
Edgestones and inside curbing	661.85	
Plank walks	58.69	
	<hr/>	
Total debit		\$39,241.12
		<hr/>
Balance unexpended		\$338.66
		<hr/> <hr/>

SCHOOLHOUSE, WARD ONE, ACCOUNT.

CREDIT.

Appropriation	\$35,000.00	
Received from sale of buildings	1,437.00	
	<hr/>	
Total credit		\$36,437.00

DEBIT.

Expenditures:—

Land, with buildings thereon	\$10,064.48	
City of Somerville, taxes	231.89	
	<hr/>	
<i>Amounts carried forward</i>	\$10,296.37	\$36,437.00

<i>Amounts brought forward</i>	\$10,296.37	\$36,437.00
City of Somerville, street watering	5.28	
Thomas M. Sargent, on account of architect's services	600.00	
Edward F. Staples, on account contract	5,500.00	
Engineering Department account, labor	30.00	
Highways account, labor	20.00	
Stone, teaming, etc., for extra foundation	943.10	
Lumber	2.55	
Advertising	29.23	
Printing	2.25	
Bill posting	6.00	
Total debit		\$17,434.78
Balance unexpended		\$19,002.22

SCHOOLHOUSE, JACOB T. GLINES ADDITION, ACCOUNT.

CREDIT.

Appropriation	\$22,000.00	
Transfer from Reduction of Funded Debt account	2,000.00	
Transfer from Schoolhouse, Land, Spring Hill District, account	2,500.00	
Total credit		\$26,500.00

DEBIT.

Expenditures:—

H. P. Cummings & Co., contract for construction	\$17,360.00	
H. P. Cummings & Co., extra work	2,031.93	
<i>Amounts carried forward</i>	\$19,391.93	\$26,500.00

<i>Amounts brought forward</i>	\$19,391.93	\$26,500.00
Magee Furnace Co., on account contract for heating and ven- tilating apparatus	4,970.00	
Aaron H. Gould, architect's ser- vices	1,236.55	
Furniture	1,002.40	
Putting down furniture	179.32	
Window shades	109.77	
Gas fixtures	88.40	
Gas fitting	15.43	
Painting	5.00	
Asbestos covering for pipes	143.26	
Iron crane and truck	24.75	
Express on furniture	42.18	
Cleaning	14.22	
Insurance	37.50	
	<hr/>	
Total debit		\$27,260.71
		<hr/>
Amount overdrawn		\$760.71
		<hr/> <hr/>

SCHOOLHOUSE, LUTHER V. BELL, HEATING, VEN-
TILATING AND SANITARY APPARATUS, AC-
COUNT.

CREDIT.

Appropriation	\$6,500.00	
Transfer from Reduction of Funded Debt account	100.00	
Received from Lynch & Woodward for repairing furniture	12.50	
	<hr/>	
Total credit		\$6,612.50
		<hr/>
<i>Amount carried forward</i>		\$6,612.50

Amount brought forward \$6,612.50

DEBIT.

Expenditures:—

A. A. Sanborn, plans for heating and ventilating apparatus	\$328.30
Lynch & Woodward, on account contract	6,416.00
Lynch & Woodward, extra work	18.30
Covering pipes with asbestos	100.66

Total debit	6,863.26
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Amount overdrawn	\$250.76
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SCHOOLHOUSE, LAND, SPRING HILL DISTRICT, ACCOUNT.

CREDIT.

Appropriation	\$3,000.00
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DEBIT.

Transfer to Schoolhouse, Jacob T. Glines Addition account	\$2,500.00
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Balance unexpended	\$500.00
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CITY HALL IMPROVEMENT ACCOUNT.

CREDIT.

Appropriation	\$22,000.00
Transfer from Highways, paving Washington street, Joy to Tufts street	1,340.21
Transfer from Highways, paving Washington street, Medford to Joy street	1,059.25

Total credit	\$24,399.46
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<i>Amount carried forward</i>	\$24,399.46
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Amount brought forward \$24,399.46

DEBIT.

Expenditures:—

Alfred H. Hines, on account contract	\$11,300.00	
Alfred H. Hines, extra work	425.00	
Foster, Ellingwood & Harvey, on account of contract for heating apparatus	800.00	
Damon Safe & Iron Works Co., vault work	1,855.00	
Thomas M. Sargent, plans	150.00	
Lumber, doors, finish, etc.	143.31	
Furniture	273.40	
Window shades	53.20	
Carpenter work, counters, vault fittings, etc.	999.05	
Hardware	19.48	
Painting	111.59	
Setting glass	7.50	
		<hr/>
Total debit	\$16,137.53	
		<hr/>
Balance unexpended	\$8,261.93	<hr/>

SCHOOL CONTINGENT (JANITORS' SALARIES) ACCOUNT.

CREDIT.

Appropriation \$13,000.00

DEBIT.

Expenditures:—

For salaries paid for eleven months	\$12,805.39	
		<hr/>
Balance unexpended	\$194.61	<hr/>

EXPENDITURES BY THIS COMMITTEE FROM MISCELLANEOUS ACCOUNT.

City Hall expenses:—

For repairs building	\$78.33	
Repairing heating apparatus	74.69	
Furniture and carpets	112.25	
Repairing furniture	25.75	
Electric lighting	300.00	
Gas	45.73	
Fuel	310.58	
Water	26.60	
Telephone	206.52	
Supplies	64.08	
Express on bundles	11.55	
P. O. box rent	4.00	
Labor	54.50	
Teaming ashes	16.00	
Typewriting machines	193.50	
		<hr/>
		\$1,524.08

City Messenger's team:—

For maintenance	579.90
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Election expenses:—

For fitting up voting precincts, repairs of boxes, fittings, etc.	\$462.34	
Care of rooms for elections and caucuses	108.60	
Rent of rooms for elections and caucuses	57.00	
		<hr/>
		627.94

Total expenditures	<hr/> <hr/>
	\$2,731.92

WILLIAM H. HODGKINS SCHOOL.

The William H. Hodgkins School, the plans and contracts for which were adopted and executed during the previous year, and under which plans and contracts the erection of the building was carried on by the committee of 1895, has been com-

pleted by this committee and turned over to the School Committee, ready for occupancy.

It is a twelve-room brick building, constructed in the most modern manner, with the latest improved heating and ventilating apparatus, and is a valuable addition to the school property of the city.

The total cost of the building, including heating and ventilating apparatus, school furniture, fittings, etc., was \$52,753.01, above the land.

SANFORD HANSCOM SCHOOL.

Of the requests made by the School Committee early in the year, for additional school accommodations, the one for a six-room building in Ward One, was decided by the City Council to be an imperative necessity. But considerable trouble was experienced by the committee in securing a lot suitable for the erection of such a building as was required. Several desirable lots suggested themselves; but owing to difficulties encountered in their purchase, and the statute laws at that time being such as to make the acquiring by right of eminent domain of land for school purposes a rather hazardous matter, the committee deemed it unwise to procure them, and finally settled upon the corner of Webster and Rush streets as the most practicable, and under the existing conditions, most desirable location.

The lot on Webster street, with the fire station thereon, which, after the erection of the new station at the corner of Broadway and Cross street, had been abandoned by the department, was by order of the City Council dated July 16, 1896, turned over to this committee, and the committee was also authorized by the same order to purchase the land on Webster and Rush streets, with the buildings thereon numbered 36 and 38 Webster street and 48 Rush street, authority for the sale of which buildings was also granted by said order.

These lots, together with the fire station lot, containing in all about 11,927 square feet, were adopted by the City Council as the site for the new building, and the committee presented plans prepared by Thomas M. Sargent, architect, for the erection

thereon of a six-room brick building, which plans were adopted August 27, 1896.

Under authority of the City Council a contract for the construction was awarded to Edward F. Staples, for the sum of \$23,000.00.

The plans for this building have been prepared in such a manner as to allow an addition of two rooms, should it be necessary at any future time, without any considerable change in the original structure.

JACOB T. GLINES SCHOOL ADDITION.

By an order dated May 21, 1896, plans prepared by Aaron H. Gould, architect, were adopted for the addition of five rooms to the Jacob T. Glines schoolhouse, and under authority of the City Council, contracts have been awarded to H. P. Cummings & Co., for \$17,360.00, for construction, and to the Magee Furnace Co., for \$5,270.00, for heating and ventilating apparatus.

The addition was completed and the school ready for occupancy for the fall term. The building has been fitted throughout with improved heating and ventilating apparatus, and as completed is one of the largest Grammar schools of the city.

The total cost of the addition, together with the improved heating and ventilating apparatus, furniture, etc., was \$27,260.71.

SCHOOLHOUSE, LUTHER V. BELL, HEATING, VENTILATING AND SANITARY APPARATUS.

During the summer vacation the heating, ventilating and sanitary apparatus of the Luther V. Bell Schoolhouse has been greatly improved. Under authority of the City Council a contract was awarded to Lynch & Woodward for the sum of \$6,566.00. The contract was completed for the fall term, and the building as now ventilated by the fan system has been approved by an inspector of the District Police force.

The total cost of the change was \$6,850.76.

CITY HALL IMPROVEMENT.

The question of increased accommodations for the various departments in the City Hall has been before the City Council for a number of years, and had reached such a point that some action in the matter could not be longer deferred. This question was one of the first to be considered by the City Council of 1896, and it received the most careful attention of all the members. Several methods of enlargement were considered, and various suggestions embodied in one plan and another, until the plans which were finally determined upon were adopted.

Although the committee regrets that the financial condition of the city was not such as to warrant the erection of a new City Hall, it is felt that the present building as enlarged will comfortably accommodate the departments for a number of years, and at an expenditure of money more satisfactory to the citizens of our city than would have been necessitated by the erection of a new building at this time.

Plans were prepared by Thomas M. Sargent, architect, the work to be carried on under the direction of the Inspector of Buildings, and under authority from the City Council contracts were awarded to Alfred H. Hines for \$18,400.00 for construction, and to Foster, Ellingwood & Harvey for \$1,325.00 for heating apparatus.

The offices in the new part of the building were completed and occupied near the close of the year 1896, and the offices in the old part will probably be completed early in the spring. In addition to the increased accommodations afforded the several departments already located in City Hall, suitable offices will be provided for the Water Board.

A detailed statement of the various repairs and improvements which have been made in the schoolhouses and public buildings during the year will be found in the report of the Superintendent of Public Buildings.

For the Committee,

LEONARD B. CHANDLER, Chairman.

WILLIAM P. MITCHELL, Clerk.

REPORT
OF THE
INSPECTOR OF BUILDINGS.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, March 10, 1897.

Referred to Committee on Printing, to be printed in the Annual Reports. Sent down for concurrence.

GEORGE I. VINCENT, *Clerk*.

IN COMMON COUNCIL, March 11, 1897.

Referred to Committee on Printing to be printed in the Annual Reports in concurrence.

CHAS. S. ROBERTSON, *Clerk*.

CITY OF SOMERVILLE.

OFFICE OF INSPECTOR OF BUILDINGS, }
January 1, 1897. }

To His Honor, the Mayor, and the City Council:—

Gentlemen,—In accordance with City Ordinance, the following report of this department for the year ending December 31, 1896, is respectfully submitted.

The number of building permits issued during the year was 463, classified as follows:—

	WARDS.				Totals.
	1	2	3	4	
Single dwellings	17	23	91	153	284
Business blocks				1	1
Additions and alterations.	9	22	34	20	85
Stables	7	2	9	13	31
Stores	1	4	8	4	17
Shops	1	3	2	2	8
Offices	1			1	2
Stores and tenements		1	2		3
Sheds	6	2	8	10	26
Storehouses	1	2		1	4
Manufactories	1	1			2
	44	60	154	205	463
Families	51	114	228	363	756

Frequent examinations have been made of buildings in course of construction or alteration, and in all cases of faulty construction, violation of ordinance, or danger from fire, the owners and builders have, on notice, complied with the orders of the Inspector.

Special attention has been given to the following cases:—

Woodwork too near chimney	.	.	.	115
Cellar walls improperly built	.	.	.	5
Brick partition walls ordered	.	.	.	5
Ordinance violated	.	.	.	2

City buildings have been erected or additions made thereto as follows:—

Fire Department Station,—Extensive alterations and additions were made on Engine No. 4, ward 4.

Fire station finished in ward 1, corner of Broadway and Cross Street.

One six-room school building, corner Webster and Glen Streets, is now being constructed.

A new twelve-room school building finished on Holland Street, ward 4.

I would recommend the following changes in the Building Ordinance:—

1. That the use of ledger-boards, in place of girts, be prohibited.

2. That all woodwork be required to be kept two inches from chimneys and fireplaces, instead of one inch, as is now provided.

3. That notice be sent Inspector when buildings are ready to lath.

4. That a copy of all plans of houses built, or alterations made, shall be deposited in office of Inspector.

5. That other provisions be inserted with a view to the prevention of the spread of fire in large buildings.

6. That fire limits be established in Davis Square, Gilman Square, Union Square, and sections including John P. Squire's and North Packing Company. Also that no wooden buildings or wooden additions to existing buildings be erected hereafter, within said limits.

The Plumbing Ordinance was changed during the past year, specifying the weight of lead pipe, requiring a uniform weight of cast-iron pipe throughout the buildings, the ventilation of apartments, separate water-closets for each family, etc.

The total number of permits for plumbing was six hundred and seventy-two, covering six hundred and sixty-seven buildings.

Permits for plumbing in old buildings	351
---	-----

Permits for plumbing in new buildings	316
---	-----

Number of recorded inspections	1444
--	------

Number of buildings where pipes were tested with water	612
---	-----

Number of buildings with defective pipes or fittings	35
---	----

Faulty construction of waste or vent system	24
---	----

These violations were pointed out to the plumbers having charge of the work, and the plumbing was reconstructed in accordance with the provisions of the Plumbing Ordinance.

The Inspector has kept himself informed of the condition of the plumbing as the buildings have progressed, and, as necessity required, given directions how the work should be done.

The following is the number of licenses and renewals of licenses issued to plumbers during the year under the Acts of 1893 and 1894, and receipts for the same paid to the City Treasurer:—

Number of master plumbers' licenses issued	5	\$10.00
Number of journeymen plumbers' licenses issued	6	3.00
Number of master plumbers' licenses renewed	15	7.50
Number of journeymen plumbers' licenses re- newed	11	5.50
		<hr/>
		\$26.00

Applicant for master plumber's license not appearing to receive license	1
--	---

Applications for master plumbers' licenses rejected	2
---	---

Applications for journeymen plumbers' licenses rejected	4
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Respectfully submitted,

FREDERICK C. FULLER,

Inspector of Buildings.

REPORT
OF THE
SUPERINTENDENT OF PUBLIC
BUILDINGS.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, March 10, 1897.

Referred to Committee on Printing, to be printed in the Annual Reports. Sent down for concurrence.

GEORGE I. VINCENT, *Clerk*.

IN COMMON COUNCIL, March 11, 1897.

Referred to Committee on Printing, to be printed in the Annual Reports. in concurrence.

CHARLES S. ROBERTSON, *Clerk*.

CITY OF SOMERVILLE.

OFFICE OF SUPERINTENDENT OF PUBLIC BUILDINGS, }
January 1, 1897. }

To the Honorable, the Mayor, and the City Council:—

Gentlemen,—In compliance with City Ordinance No. 19, Section 8, this report is respectfully submitted.

Repairs, alterations and additions have been made during the past year at the several city buildings as follows:—

City Hall.—An addition of fifty by seventy-two feet has been built, making commodious offices for the several departments assigned to the new part. The mayor's office has been refinished and furnished in the old part of the building. The city clerk's office will be enlarged and refurnished, also new vault with increased accommodations. The water board will be assigned room vacated by the city engineer.

Beach Street School.—New windows cut in north side; furniture repaired.

Luther V. Bell School.—Extensive changes have been made and fan system of heating and ventilating put in; two new boilers replacing old one; new toilet-room placed on upper floor; window cut through partition for lighting hall and stairway; new coat and hat room finished in schoolroom; furniture repaired and varnished.

Bennett School.—New fences around yard, also woodwork in building varnished.

Bingham School.—New furniture added to two rooms; blackboards enlarged and repaired.

Burns School.—All inside woodwork varnished; new flag-staff put on building.

Cedar Street School.—Building painted outside and in; ceiling tinted; yard filled in and slight repairs on furniture.

Cummings School.—Basements whitewashed; outside entrances raised and brick foundations put under; furnace repaired.

Davis School.—Walls painted; boys' sanitariums raised and repaired.

Edgerly School.—Ceilings whitened; walls painted in two rooms; principal's room painted and new carpet.

English High School.—Alterations were made in closets; platform lowered in music room; cases built for typewriters; offices for banking room; room fitted up in basement for manual training department; lathes, saws and planer, with benches, sinks, and motor for supplying power; all latest improved equipments for the several branches of work.

Forster School.—Extensive changes were made in sanitariums, all re-located and new material substituted for old style closets; new dressing-rooms added to two schoolrooms; new entrance for girls on south side; one boiler retubed; gas pipe, new coal-bins and painting done.

Franklin School.—One new floor put down; furniture cleaned and varnished; steps repaired; new walks and new shades to part of windows.

Jacob T. Glines School.—Extensive additions have been made the past year. Five rooms, with all modern improvements for heating and ventilation, have been added.

Harvard School.—New fences and house resingled; slight repairs on inside as required.

Highland School.—New book-case added; walk covered from basement to outside sanitariums on girls' side.

Jackson School.—Furniture repaired and varnished; fences rebuilt; inside wood-work varnished.

O. S. Knapp School.—New concrete walks; edgestones for grading yard have been put in; new curtains for one room; ceilings whitened; cords, pulleys and other repairs made.

Latin School.—A new floor was laid in one large room; windows repaired and curtains fixed; walls in basement painted and necessary repairs made.

Lincoln School.—New grate put in for boilers; sanitariums repaired.

Morse School.—Gutters repaired; new case in hall for storage of supplies; cords and pulleys for maps; tables for numbers, etc.

Charles G. Pope School.—Small room made for storage of supplies; gas piping in hall; pointing of brick work; room for janitor in basement.

Prescott School.—Ceilings whitened; walls painted; furniture repaired and varnished.

Prospect Hill School.—This building has been damaged by fire, but repaired and strengthened by iron rod through building; new floors and doors, also newly painted; ceilings whitened.

Spring Hill School.—This building is still used for storage purposes and as a work-shop.

In addition to the above, ordinary repairs have been made as occasion has required.

FREDERICK C. FULLER,

Supt. of Public Buildings.

REPORT
OF THE
SUPERINTENDENT OF ELECTRIC
LINES.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, January 13, 1897.

Referred to Committee on Printing, to be printed in the Annual Reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk*.

IN COMMON COUNCIL, January 13, 1897.

Referred to Committee on Printing, to be printed in the Annual Reports,
in concurrence.

CHAS. S. ROBERTSON, *Clerk*.

CITY OF SOMERVILLE.

OFFICE OF SUPERINTENDENT OF ELECTRIC LINES AND LIGHTS, }
CITY HALL, December 24, 1896. }

To His Honor, the Mayor, and the City Council:—

Gentlemen,—I herewith present my first annual report, for the year ending December 31, 1896.

The fire alarm system has been put in first-class working order. Thirteen new boxes have been added, covering a large amount of territory before unprotected. A device whereby the key is left in the box door at all times has been attached to the boxes, doing away with the old system of having keys at different houses. In this way an alarm can be given much quicker than formerly.

Local tapper circuits have been built from the different engine houses, so that the call men are notified of every alarm at once, thereby greatly increasing the efficiency of the fire department. A special line has been built from Engine 4's house of West Somerville to Engine 4's house of Cambridge, thereby allowing an interchange of alarms between the two cities. An attachment has been placed in the different engine houses so that in case of a still alarm the members of that company can be notified without giving a general alarm.

I would recommend that the old fire alarm boxes now in service be replaced by more modern boxes, which have improvements in regard to non-interference much superior to the old boxes.

I would also recommend the use of the storage battery system, which is now being used by all the adjoining cities, as being much more economical to maintain than the present gravity battery.

The police signal system has received constant attention and is in good working order.

Several new hard pine poles have been set to replace old poles condemned as unsafe. Many abandoned poles have been removed, thereby greatly improving the appearance of our streets. Dead wires have been removed, and several buildings inspected that have been wired for electric lighting.

I would also earnestly recommend the placing of wires under ground, as it would greatly improve the appearance of our streets and also the efficiency of the fire alarm and police signal systems.

Thanking His Honor, the Mayor, and members of the City Council for the kind consideration shown me during my short term of office, I respectfully submit this report.

EDWARD BACKUS,
Supt. of Electric Lines and Lights.

REPORT
OF THE
INSPECTOR OF MILK AND VINEGAR

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, December 31, 1896.

Referred to next City Council to be printed in the Annual Reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk*.

IN COMMON COUNCIL, December 31, 1896.

Reference concurred in.

CHARLES S. ROBERTSON, *Clerk*.

CITY OF SOMERVILLE.

OFFICE OF THE INSPECTOR OF MILK AND VINEGAR, }
December 30, 1896.

To His Honor, the Mayor, and the City Council of the City of
Somerville:—

Gentlemen,—I herewith present the annual report of the
inspector of milk and vinegar, for the year ending Dec. 31st,
1896.

The work in this department did not come under my charge
until late in March; consequently I can only report the work of
nine months of the year. Taking up the work about the first
of April, I had to pick up the lines as left by my venerable pre-
decessor, Capt. Cunningham, who had had many years of ex-
perience in this line of work. In order to find out definitely
who were engaged in the sale of milk I made a thorough canvass
of the city in April, and found about two hundred places where
milk was sold from stores of various kinds.

There were seventy of these places that had no registration.
During the month of May I issued one hundred and thirty-three
licenses, mostly to teams. For the nine months I have issued
one hundred and ninety-seven annual licenses and registered
one hundred and five stores; making three hundred and two of
both kinds. I have receipts from the city treasurer showing one
hundred and fifty-one dollars received as fees for the licenses.

At the last session of the Legislature 12 per cent. milk
solids was made the standard for the months of April, May,
June, July and August, instead of May and June only, as hereto-
fore. So the standard now is 12 per cent. for five months and 13
per cent. for seven months of the year. I have from time to

time taken samples from teams and stores in all parts of the city, testing them with the lactoscope and lactometer, and when in doubt have had them analyzed by a chemist, and found most of them up to the standard or only a fraction of one per cent. below. I have notified all dealers when I have found samples taken not up to the standard, and have always found them anxious to improve the quality, from whatever source they obtained their supply. Many dealers have brought samples that they suspected were not up to the standard to have them tested. Further tests from those dealers have shown marked improvement in quality. I am satisfied that the milk produced within ten or fifteen miles of Boston, while it has the advantage of freshness, is poorer in quality in many cases than it otherwise would be, consequent upon the feeding of the cows on brewers' grains. By such feeding the quality is often sacrificed for quantity.

The dealers licensed in Somerville distribute in this city and vicinity 8,369 cans, or 16,738 gallons of milk daily, of which amount only 552 cans are produced by the dealers.

Somerville has a larger number engaged in the sale of milk than many cities of 20,000 more inhabitants; consequently much time must necessarily be given by the inspector to the work, in order that the best results may be obtained.

I have heard no complaint of the vinegar sold in this city and understand from the inspectors of Boston and Cambridge that it is generally up to the standard in this vicinity.

The sale of oleomargarine is virtually abandoned since the law prohibiting the coloring to resemble butter has been in force. People who would use it when it resembled butter, will not use it when it is in its natural or white state, and dealers in butter have no use for a license for the sale of oleo any longer.

Respectfully submitted,

CHARLES S. PHILBRICK,

Inspector of Milk and Vinegar.

REPORT
OF THE
INSPECTOR OF ANIMALS AND
PROVISIONS.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, February 10, 1897.

Referred to Committee on Printing, to be printed in the Annual Reports. Sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, February 11, 1897.

Reference concurred in.

CHARLES S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

OFFICE OF INSPECTOR OF ANIMALS AND PROVISIONS, }
February 1, 1897. }

To the Honorable, the Mayor, and the City Council:—

Gentlemen,—I herewith present the report of the work performed by me since assuming the duties of the office of inspector of animals and provisions, April 1, 1896, after the resignation of my predecessor, Captain Thomas Cunningham, who held the office for many years.

Somerville is the largest city this side of Chicago in the amount of slaughtering done annually; and the Massachusetts laws are now more strict than ever in regard to the inspection of animals.

There are five establishments in this city where slaughtering is done; the North Packing and Provision Co., the New England Dressed Meat and Wool Co., the John P. Squire Co., the Sturtevant & Haley Beef and Supply Co., and Hartz Gunsenheiser. At the North Packing Co. and the John P. Squire Co. only swine are slaughtered; at the New England Dressed Meat and Wool Co., sheep, cattle and calves, and at the other two smaller establishments the slaughtering is principally cattle.

The number of animals slaughtered during the nine months in which I have been inspector is as follows: North Packing Co., 607,774; John P. Squire Co., 437,199; New England Dressed Meat and Wool Co., total of all kinds, 345,259; Sturtevant & Haley Beef and Supply Co., 5,532; Hartz Gunsenheiser, 1,117; a grand total of 1,396,881.

I have made 346 visits to the several slaughtering establishments, and visited twice a month the provision stores of the city. I have also inspected 380 cattle, 23 swine, and 2 sheep, kept in the city. Ten cows have been quarantined and three of that number were ordered killed; the remainder were released. I have also measured 112 barns, as required by law. I have found 17 cases of glanders among the horses during my term.

Provision stores and provision wagons have been regularly and carefully inspected, and in only a very few instances have I found anything wrong. I am also glad to report that all places where provisions and meat are sold in this city are kept in good and clean condition.

Respectfully submitted,

CHAS. M. BERRY.

Inspector of Animals and Provisions.

REPORT
OF THE
SEALER OF WEIGHTS AND
MEASURES:

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, March 10, 1897.

Referred to Committee on Printing, to be printed in the Annual Reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk*.

IN COMMON COUNCIL, March 11, 1897.

Referred to Committee on Printing, to be printed in the Annual Reports,
in concurrence.

CHAS. S. ROBERTSON, *Clerk*.

CITY OF SOMERVILLE.

OFFICE OF THE SEALER OF WEIGHTS AND MEASURES, }
316 Broadway, Somerville, March 1, 1897. }

To His Honor, the Mayor, and the City Council:—

The undersigned was appointed Sealer of Weights and Measures in March on the death of Capt. Ammiel Colman, who had held the office for several years.

Notice was given by advertisement in the Somerville papers for all parties buying or selling by weight or measure to bring their scales, weights and measures to the office to be sealed, and in the months of June, July, August and September the Sealer visited all places in Somerville where goods were sold by weight or measure. More than 6,000 different utensils used in trade, including scales of every description and all kinds of measures were tested by the state standard. The larger number were sealed and some were condemned.

The Sealer is glad to report that most of the scales were quite up to the standard. Those parties whose scales were found accurate were always glad to have the test applied.

In the factory where the largest contributions were made to the expense of the department the scales and weights were found as correct as human ingenuity well could make them.

In some stores great care was found to be used, but in some places weights and measures unfit for honest dealers were in daily use. When possible, the inaccurate were corrected and

improved but sometimes necessarily condemned as unsuitable for use. Scales, particularly in smaller stores, were oftentimes so covered with dirt as to render it impossible to give accurate weight.

Much of the time of the Sealer was given to instructing persons how to correct their scales and to keep them in proper order; for the measure which is right today may be adjusted so as to be wrong tomorrow. Where parties thought there was no need of the Sealer's services they were almost always found most needed.

Peddlers are the most difficult parties to handle. In order to reach all of them an officer would be obliged to spend his entire time on the streets. If practicable, where a peddler is required to obtain a city license, I think it would be well before granting it to oblige him to produce a certificate from the sealer that he was furnished with measures and scales properly tested and suitable to carry on his business. In many of the smaller stores old and cheap scales are used, frequently to the disadvantage of the dealer. The beam should tip quickly. Purchasers want weight, and should be given that, but dealers cannot afford to give 17 ounces for a pound as I found them doing in several instances.

I think it would be well to have an office at the City Hall where the sealer could be found at certain hours of the day or certain days of the week, and that the compensation should be such as to furnish a team suitable for a city official.

An association of sealers of weights and measures for the state has recently been formed and it is believed that it will result in great good to the community. As the sealer stands between two parties in the business world, the seller and the buyer, both equally interested, I see no reason why the expense should entirely or partially be borne by the seller. It seems to me the expenses of the department should be paid by general rather than by special tax, and then with changed conditions the sealer should devote his time to securing accurate measurement in all dealings of man with man.

ACCOUNT TO JAN. 1, 1897.

Expenses—Man and team . . .	\$66.00	
Dies for 1897 . . .	4.25	
Printing and Advertis- ing	18.15	
Sealer's salary . . .	237.50	
	<hr/>	\$325.90
Received Fees and paid to Treas- urer	\$184.67	
Net expense	141.23	
	<hr/>	\$325.90

LUTHER B. PILLSBURY,
Sealer of Weights and Measures.

REPORT
OF THE
CITY SOLICITOR.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, March 10, 1897.

Referred to Committee on Printing, to be printed in the Annual Reports.
Sent down for concurrence.

GEORGE I. VINCENT, *Clerk*.

IN COMMON COUNCIL, March 11, 1897.

Concurred in.

CHAS. S. ROBERTSON, *Clerk*.

CITY OF SOMERVILLE.

March 8, 1897.

TO THE HONORABLE, THE MAYOR, AND THE CITY COUNCIL :—

I respectfully submit my report as City Solicitor for the year ending December 31, 1896. The following were the cases pending in the courts during the year 1896, in which the City of Somerville was a party, and so far as disposed of, they were disposed of as hereinafter stated:—

1. Parker vs. Somerville—Before County Commissioners of Middlesex County. Damages on account of land alleged to have been taken for a sewer by the city.

2. Boston & Lowell R. R. Co. vs. Somerville—Before Superior Court for Middlesex County. Petition in regard to repairs and reconstruction of bridges across railroad location in Somerville, and assessment of expenses thereof.

3. Williams vs. Somerville—Before Superior Court for Middlesex County. Action for damages on account of alleged injuries to cattle by the employees of the Gypsy Moth Commission.

4. Cole, Collector, vs. Charles H. North—Before Superior Court for Suffolk County. Action to recover personal estate taxes for 1890.

5. Mayor and Aldermen of Somerville vs. Fitchburg and Albany Railroad Companies—Before Superior Court for Middlesex County. Petition for appointment of commissioners in regard to grade crossings on Somerville avenue.

6. Smith vs. Somerville—Before Superior Court for Middlesex County. Action for injury to horse and carriage alleged to have been received on Medford street on August 28, 1893.

7. White vs. Somerville—Before Superior Court for Middlesex County. Action for personal injuries alleged to have been received on Medford street on August 28, 1893. Settled Nov. 2, 1896, by payment of \$50.

8. Tower, et al., vs. Somerville—Before Superior Court for Middlesex County. Appeal from award for alleged taking of land for sewer on Tower street.

9. Graham vs. Somerville—Before Superior Court for Middlesex County. Action for personal injuries alleged to have been received on Franklin street on December 5, 1892.

10. Symmes vs. Somerville—Before County Commissioners of Middlesex County. Petition for repairs of Middlesex avenue.

11. Emerson vs. Somerville—Before Superior Court for Middlesex County. Petition for assessment of damages on account of alleged taking of land and buildings at Nathan Tufts Park. Verdict for city at trial, and plaintiff appealed to Supreme Court. June, 1896, Supreme Court affirmed the verdict in favor of the city.

12. Dimick vs. Somerville—Before County Commissioners of Middlesex County. Petition for laying out of Line street.

13. Veazey vs. Somerville—Before Superior Court for Middlesex County. Action for personal injuries alleged to have been received on Summit avenue on January 31, 1894. Settled Oct. 3, 1896, by payment of \$300.

14. Somerville vs. Walker—Before Superior Court for Middlesex County. Bill in equity to restrain erection of oil works. Now pending before Full Bench of Supreme Court.

15. Edgecomb vs. Somerville—Before Superior Court for Middlesex County. Action for personal injuries alleged to have been received on Washington street on November 5, 1894.

16. Metropolitan Sewer Commissioners vs. Somerville—Before Superior Judicial Court for Suffolk County. In the mat-

ter of appointment and award of Commissioners to assess expense of Metropolitan Sewer System. Still pending in court.

17. Reed vs. Somerville—Before Superior Court for Middlesex County. Action for damages alleged to have been received from the conducting of sewage through his premises near Mystic avenue. May 5, 1896, settled by payment of \$2,000.

18. Stearns vs. Somerville—Before Superior Court for Middlesex County. Appeal from award of damages for land alleged to have been taken for sewer. Settled by Stearns giving release for sewer and drainage purposes and receiving \$700.

19. Clark vs. Somerville—Before Superior Court for Middlesex County. Action for personal injuries alleged to have been received on School street, on December 28, 1894.

20. Mayall vs. Somerville—Before Superior Court for Middlesex County. Action for personal injuries alleged to have been received on Florence street, on February 12, 1895. Settled Feb. 29, 1896, by payment of \$500.

21. Kirk vs. Somerville—Before Superior Court for Middlesex County. Action for personal injuries alleged to have been received by reason of having been in a house, quarantined by Board of Health on account of small-pox. Action dismissed.

22. Somerville vs. Jans—Before Superior Court for Middlesex County. Action to recover for expenses of support of defendant's wife in insane asylum. Judgment for \$195 for the city.

23. Nichols vs. Somerville—Before Superior Court for Middlesex County. Action for personal injuries alleged to have been received on Washington street, on May 4, 1895. Settled Sept. 25, 1896, by payment of \$250.

24. Bell vs. Somerville—Before Superior Court for Middlesex County. Action for damages alleged to have been suffered by reason of lowering of grade of Broadway, opposite premises of plaintiff. Settled May 14, 1896, by payment of \$400.

25. Courtney vs. Somerville—Before Superior Court for Middlesex County. Action for damages alleged to have been

suffered by reason of the drowning of plaintiff's son in Wyatt's Pit.

26. Osborn vs. Somerville—Before Superior Court for Middlesex County. Action for damages alleged to have been suffered by reason of change of grade of Porter street and Mountain avenue, opposite plaintiff's premises.

27. Hart vs. Somerville—Before County Commissioners for Middlesex County. Appeal from assessment of taxes.

28. Somerville vs. Waltham—Before Superior Court for Middlesex County. Action to recover back taxes paid on plaintiff's land in Waltham. Judgment for Somerville and defendant appealed to Supreme Court.

29. Reed vs. Somerville—Before Superior Court for Middlesex County. Action (2nd) for damages alleged to have been received from the conducting of sewage through his premises near Mystic avenue. Settled May 5, 1896, by payment of \$212.50.

30. Bailey vs. Somerville—Before Superior Court for Middlesex County. Action for personal injuries alleged to have been received on Mt. Vernon street on December 29, 1894.

31. Reed vs. Somerville—Before County Commissioners for Middlesex County. Appeal from assessment of taxes. Nov. 7, 1896, petition dismissed.

32. Reed, et al., vs. Somerville—Before County Commissioners for Middlesex County. Appeal from assessment of taxes. Nov. 7, 1896, petition dismissed.

33. Fitchburg Railroad Co. vs. Somerville—Before County Commissioners for Middlesex County. Petition as to construction of bridge at Washington street. May 5, 1896. Decree for construction. Stipulation filed by Railroad Co. to pay all expenses.

34. Aldrich vs. Somerville—Before Superior Court for Middlesex County. Action for personal injuries alleged to have been received on Boston street on Jan. 17, 1896.

35. Capen, et al., vs. Somerville—Before County Commissioners for Middlesex County. Petition for re-location of Broadway.

36. *Kavnay vs. Somerville*—Action for personal injuries alleged to have been received from collision with hose wagon of fire department. Discontinued June 9, 1896.

37. *Conway vs. Somerville*—Before Superior Court for Middlesex County. Action for personal injuries alleged to have been received on Dane street on Feb. 6, 1896.

38. *Southward vs. Somerville*—Before Superior Court for Middlesex County. Action for personal injuries alleged to have been received on Highland avenue on May 7, 1896.

39. *Stone vs. Somerville*—Before Superior Court for Middlesex County. Action for personal injuries alleged to have been received on Highland avenue on May 7, 1896.

40. *McKenna vs. Somerville*—Before Superior Court for Middlesex County. Petition to enforce mechanic's lien. Petition dismissed July 28, 1896.

41. *Carroll vs. Somerville*—Before Superior Court for Middlesex County. Action for personal injuries alleged to have been received on Medford street on Jan. 26, 1896.

42. *Woods vs. Somerville*—Before Superior Court for Middlesex County. Action for personal injuries alleged to have been received on Boston street, Jan. 2, 1895.

43. *Ducey vs. Somerville*—Before Superior Court for Middlesex County. Action for personal injuries alleged to have been received on Medford street on Jan. 25, 1895.

44. *Reed vs. Somerville*—Before Superior Court for Middlesex County. Appeal from assessment for taxes of 1896.

45. *Reed, et al., vs. Somerville*—Before Superior Court for Middlesex County. Appeal from assessment for taxes of 1896.

46. *Keef vs. Somerville*—Before Superior Court for Middlesex County. Action for personal injuries alleged to have been received on Bow street, Oct. 16, 1896.

47. *Ricker vs. Somerville*—Before Superior Court for Middlesex County. Action for personal injuries alleged to have been received on Roseland street, Feb. 23, 1896.

48. *Wilkinson vs. Somerville*—Before Superior Court for Middlesex County. Action for personal injuries alleged to have been received on Russell street on Nov. 17, 1896.

49. Emblom vs. Somerville—Before Superior Court for Middlesex County. Action for personal injuries alleged to have been received on Somerville avenue on Dec. 9, 1896.

50. Knowles vs. Somerville—Before Superior Court for Middlesex County. Action for personal injuries alleged to have been received on Franklin street, July 28, 1896.

51. Kavnay vs. Trefren—Before Superior Court for Middlesex County. Action against driver of hose wagon of fire department for injuries alleged to have been suffered by reason of collision with the wagon.

Aside from matters of litigation numerous questions have been presented to me during the year by the different departments and officers of the city for my consideration and opinion, which, however, I need not recapitulate, as the most of them appear on record in the different departments of the city.

Many claims have been heard and passed upon by the Committee on Claims. In most of the cases, which were thus heard, the petitioners were given leave to withdraw, and as we have since heard nothing from such cases, except those which are hereinbefore referred to as entered in court, it is not necessary that I should trouble you with a recital of them.

All which is respectfully submitted.

S. Z. BOWMAN,

City Solicitor.

REPORT
OF THE
CITY CLERK.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, February 10, 1897.

Referred to Committee on Printing, to be printed in the Annual Reports. Sent down for concurrence.

GEORGE I. VINCENT, *Clerk*.

IN COMMON COUNCIL, February 11, 1897.

Referred to Committee on Printing to be printed in the Annual Reports in concurrence.

CHAS. S. ROBERTSON, *Clerk*.

CITY OF SOMERVILLE.

OFFICE OF THE CITY CLERK, February 8, 1897.

TO THE HONORABLE, THE MAYOR, AND THE CITY COUNCIL:—

Gentlemen,—The following is respectfully submitted as the twenty-fifth annual report of the City Clerk of the City of Somerville, and is for the year ending December 31, 1896.

CASH.

The receipts and payments were as follows:—

RECEIPTS.

Balance from year 1895, being for dog licenses issued in December, 1895,—4 males at \$2.00 and 1 female at \$5.00	\$13.00	
Less city clerk's fees paid to the city treasurer in December, 1895, 5 at \$0.20	1.00	
	<hr/>	\$12.00
For dog licenses issued in 1896:— 1,020 males at \$2.00	\$2,040.00	
98 females at \$5.00	490.00	
	<hr/>	\$2,530.00
For recording mortgages, assign- ments, etc., 746 papers	\$444.00	
Certificates of marriage inten- tions, 573 at \$0.50	286.50	
Furnishing copies of records	25.00	
<i>Amounts carried forward</i>	<hr/> \$755.50	<hr/> \$2,542.00

<i>Amounts brought forward</i>	\$755.50	\$2,542.00
Recording and posting naturalization notice	0.50	
Licenses:—		
To collect junk, 33 at \$2.00	66.00	
For intelligence offices, 9 at \$2.00	18.00	
For billiard and pool tables and bowling alleys, 8 licenses for 5 places of business, 16 tables and 5 alleys, at \$2.00	42.00	
To auctioneers, 21 at \$2.00	42.00	
To sell fireworks, 73 at \$1.00	73.00	
For amusements, 2 at \$50.00 and 47 at \$1.00	147.00	
To street musicians, 37 persons at \$0.50	33.50	
To slaughter cattle, 3 at \$1.00	3.00	
		\$1,180.50
Total receipts		\$3,722.50

PAYMENTS.

To Joseph O. Hayden, county treasurer, June 1, and December 1, receipts for dog licenses from December 1, 1895, to November 30, 1896, both inclusive:—

1,024 males at \$2.00	\$2,048.00	
99 females at \$5.00	495.00	
		\$2,543.00
Less city clerk's fees, 1,123 at \$0.20	224.60	
<i>Amount carried forward,</i>		\$2,318.40

<i>Amount brought forward</i>		\$2,318.40
To John F. Cole, city treasurer, monthly, city clerk's fees for issuing and recording dog li- censes, 1,118 at \$0.20	\$223.60	
All the receipts above specified, except for dog licenses	1,180.50	
	<hr/>	\$1,404.10
Total payments		<hr/> <hr/> \$3,722.50

Of the amount in the hands of the receiver of the Maverick National Bank, January 1, 1894, (being a portion of the receipts of this office for dog licenses and interest for the year 1891), as stated in my annual report for the year 1893, viz. \$185.60
the seventh dividend on the original claim of \$1,484.66 has been received and paid to the county treasurer, as follows:—

February 15, $2\frac{1}{2}$ per cent.	29.69
	<hr/>
Leaving unpaid $10\frac{1}{2}$ per cent., or	<hr/> <hr/> \$155.91

BIRTHS.

Number of births in Somerville in 1896 regis- tered	1,544
More than previous year	147
Males	817
Females	727
	<hr/> 1,544

Born of American parents	545	
“ foreign parents	667	
“ American father and foreign mother	184	
“ foreign father and American mother	140	
“ American mother, and father of unknown nationality	5	
“ foreign mother, and father of unknown nationality	2	
“ foreign father, and mother of unknown nationality	1	
	<hr/>	1,544
Number of cases of twins		22

MARRIAGES

Number of intention certificates issued	573	
Less than previous year	5	
Marriages registered	608	
Less than previous year	3	
Both parties American	267	
Both parties foreign	192	
American groom and foreign bride	85	
Foreign groom and American bride	64	
	<hr/>	608 couples
First marriage of	1072	
Second marriage of	139	
Third marriage of	5	
	<hr/>	608 couples

DEATHS.

Number of deaths in Somerville in 1896	924	
More than previous year	86	
Males	456	
Females	468	
	<hr/>	924

Under 10 years of age	377	
Between 10 and 20 years of age	34	
Between 20 and 30 years of age	74	
Between 30 and 40 years of age	66	
Between 40 and 50 years of age	69	
Between 50 and 60 years of age	71	
Between 60 and 70 years of age	99	
Between 70 and 80 years of age	82	
Between 80 and 90 years of age	46	
Between 90 and 100 years of age	5	
Over 100 years of age	1	
	<hr/>	924
Age of oldest person deceased		101
Born in Somerville	305	
Born in other places in the United States	389	
Of foreign birth	229	
Birthplace unknown	1	
	<hr/>	924
Number of deaths in January	80	
“ “ February	68	
“ “ March	70	
“ “ April	71	
“ “ May	73	
“ “ June	64	
“ “ July	101	
“ “ August	89	
“ “ September	95	
“ “ October	74	
“ “ November	65	
“ “ December	74	
	<hr/>	924

The number of stillbirths recorded during the year was 52.

The causes of death may be found in the report of the Board of Health.

ASSESSED POLLS AND REGISTERED VOTERS.

MEN'S LISTS.

WARD.	PRECINCT.	Assessed Polls, May 1, 1896.	REGISTERED VOTERS.							
			Nov. 20, 1885.	Revised Lists of September 8, 1896.	Added in Sept. and Oct., 1896.	Oct. 22, 1896.	Added in Nov., 1896.	Nov. 25, 1896.	Voted Nov. 3, 1896.	Voted Dec. 8, 1896.
Ward 1	Precinct 1	633	346	308	109	417	—1	416	384	236
" 1	" 2	530	336	295	74	369	2	371	334	221
" 1	" 3	834	448	389	134	523	—1	522	476	244
" 1	" 4	807	314	266	55	321	2	323	280	195
		2,804	1,444	1,258	372	1,630	2	1,632	1,474	896
Ward 2	Precinct 1	797	560	513	98	611	1	612	572	345
" 2	" 2	1,006	618	577	112	689	6	695	651	415
" 2	" 3	829	375	326	82	408	—	408	374	259
" 2	" 4	1,121	515	458	109	567	2	569	507	343
" 2	" 5	1,062	373	329	77	406	5	411	367	287
		4,815	2,441	2,203	478	2,681	14	2,695	2,471	1,649
Ward 3	Precinct 1	1,133	689	627	126	753	1	754	677	444
" 3	" 2	815	499	461	78	539	—	539	486	305
" 3	" 3	908	652	577	73	650	9	659	610	426
" 3	" 4	1,219	622	569	136	705	4	709	629	399
		4,075	2,462	2,234	413	2,647	14	2,661	2,402	1,574
Ward 4	Precinct 1	954	494	476	108	584	1	585	541	354
" 4	" 2	1,020	479	450	137	587	—3	584	534	308
" 4	" 3	756	442	416	100	516	—1	515	487	290
" 4	" 4	1,093	648	581	127	708	—1	707	641	407
		3,823	2,063	1,923	472	2,395	—4	2,391	2,203	1,359
City		15,517	8,410	7,618	1,735	9,353	26	9,379	8,550	5,478

WOMEN'S VOTING LISTS.

WARD.			PRECINCT.			Nov. 20, 1895.	Revised Lists of Oct. 22, 1896.	Added in Nov., 1896.	Nov. 25, 1896.	Voted Dec. 8, 1896.
Ward 1	.	.	Precinct 1	.	.	35	27	2	29	4
" 1	.	.	" 2	.	.	13	11	—	11	1
" 1	.	.	" 3	.	.	41	34	1	35	2
" 1	.	.	" 4	.	.	1	1	—	1	—
						90	73	3	76	7
Ward 2	.	.	Precinct 1	.	.	61	48	5	53	12
" 2	.	.	" 2	.	.	107	97	3	100	41
" 2	.	.	" 3	.	.	5	3	—	3	—
" 2	.	.	" 4	.	.	20	12	—	12	4
" 2	.	.	" 5	.	.	8	7	—	7	3
						201	167	8	175	60
Ward 3	.	.	Precinct 1	.	.	55	44	3	47	36
" 3	.	.	" 2	.	.	60	45	1	46	16
" 3	.	.	" 3	.	.	77	58	9	67	35
" 3	.	.	" 4	.	.	65	56	6	62	28
						257	203	19	222	115
Ward 4	.	.	Precinct 1	.	.	89	72	12	84	57
" 4	.	.	" 2	.	.	53	46	7	53	30
" 4	.	.	" 3	.	.	59	43	4	47	28
" 4	.	.	" 4	.	.	92	81	1	82	55
						293	242	24	266	170
City	.	.	.	.	.	841	685	54	739	352

Herewith are presented copies of ordinances passed since the printing of the last annual reports.

GEORGE I. VINCENT,
City Clerk.

ORDINANCES.

CITY OF SOMERVILLE.

February 8, 1897.

The following ordinances have been adopted since the printing of the Annual Reports for the year 1895.

GEORGE I. VINCENT, *City Clerk*.

CITY OF SOMERVILLE.

No. 60.

AN ORDINANCE RELATING TO THE USE OF STREETS.

Be it ordained by the City Council of the City of Somerville, as follows:—

Section 1. No person, except as authorized by ordinance of the city, or order, regulation, license, or permission of the Board of Aldermen, or other board or officer of the city thereto duly authorized, or except an officer or employée of the city, and for some public purpose, or use, shall drop, place, or throw and suffer to remain, or cause to be dropped, placed, or thrown in or upon any highway, street, lane, square, or other public place in the city, any ashes, cinders, glass, crockery, scrap iron, nails, tacks, stones, gravel, paper, dirt, shrub or tree, or trimmings thereof, post, pole, stones, earth from cellars, lumber, or other building material, or any materials, obstruction, refuse, rubbish, or offensive matter of any kind.

Section 2. Whoever violates any provision of this ordinance shall be liable to a penalty of not more than twenty dollars for each offence.

Section 3. This ordinance shall take effect upon its passage.

Approved May 11, 1896.

Published in Somerville Journal of May 16, 1896.

No. 61.

AN ORDINANCE IN REGARD TO SEWERS IN THE TANNERY
BROOK DISTRICT, SO-CALLED.

*Be it ordained by the City Council of the City of Somerville,
as follows:—*

Section 1. Whereas the territory in Somerville, the sewage of which is to be discharged into the sewers in Cambridge and conducted away through the same into the Metropolitan sewer, comprises the district shown on the plan hereinafter in this ordinance contained, and in conformity to the agreement between the City of Cambridge and the City of Somerville and the rights thereby and otherwise given to the City of Somerville to have the sewage of said district finally discharged into the Metropolitan sewer, all roof water and storm water is to be excluded from the sewers in said district, now

Therefore, the sewage from and in all said district is to include sewage or drainage only from houses and buildings, and all roof and surface water is to be excluded from the sewers in said district.

No person shall cause or allow any roof water or surface water by pipe or otherwise to be conducted or to flow or discharge into any pipe or drain connecting with, or which indirectly through any other pipe or drain or directly discharges its contents into, any main drain or common sewer within said district, or the drainage from which directly or ultimately flows into any such main drain or common sewer, or shall do anything to cause, or shall allow, any sewage (except sewage or drainage from houses and buildings) or any roof water or surface water from premises, owned or controlled by him, to be conducted or to flow or discharge, whether directly or indirectly, immediately or ultimately, into any such main drain or common sewer in said district, and no rain water conductor or pipe for conducting water from roof or grounds shall be connected with any public sewer within said district or with any soil or waste pipe or drain, which communicates or discharges directly or indirectly with or into any such public sewer.

Any pipe or drain which conducts from premises roof water or surface water in violation of the foregoing provisions, may by order of the Board of Mayor and Aldermen, or by order of the Committee on Sewers of the Board of Mayor and Aldermen, when in the judgment of such committee immediate action is required, be cut off and disconnected or otherwise prevented from discharging such roof water or surface water or any sewage, until such provision shall be made as shall be satisfactory to the city engineer for excluding roof water or surface water from such pipe or drain.

The city engineer shall not grant a permit to any person to enter a private or other drain or sewer into any main drain or common sewer in said district or into any private or other drain or sewer, connecting with, or the contents of which will discharge, directly or indirectly, immediately or ultimately, into any main drain or common sewer in said district, unless it shall appear to his satisfaction, and upon examination of the premises by him or by the inspector of buildings or such other proper person as he shall direct, that such private or other drain or sewer, for which such permit to enter is required, will not conduct any roof water or surface water in violation of the foregoing provisions, and is not connected, directly, indirectly or remotely, or in any way with any pipe or drain for conducting away roof water or surface water; and before any such permit is granted by the city engineer to connect with any main drain or common sewer any private or other drain or sewer, he may require to be cut off or disconnected, or may himself cut off or disconnect from such private drain or sewer, for which such permit to enter is required, any such private drain or sewer for the draining of any estate as does not comply with the foregoing requirements, or for which under the foregoing provisions and requirements no permit to enter another drain or sewer would be granted by him.

Section 2. The plan hereinbefore referred to is the following, and the broad lines, marked "boundary lines," about said district and enclosing the same are the boundary lines thereof:



City of Somerville
Plan of
Tannery Brook Valley
Sewerage District in Somerville)
April 15, 1896. Scale 1 in. = 400 ft.
Ernest W. Bailey
City Engineer

Section 3. Whoever violates any provision of this ordinance shall be liable to a penalty of not more than twenty (20) dollars for each offence.

Section 4. This ordinance shall take effect upon its passage.

Approved May 27, 1896.

Published in Somerville Citizen of June 19, 1896.

No. 62.

AN ORDINANCE TO AMEND SECTION TWO OF CHAPTER TWENTY OF THE REVISED ORDINANCES OF 1891, IN RELATION TO WIRES OF THE FIRE ALARM AND POLICE SIGNAL SYSTEMS.

Be it ordained by the City Council of the City of Somerville, as follows:—

Section 1. Section two of chapter twenty of the Revised Ordinances of 1891 is hereby amended by striking out all that part of the last paragraph of said section, which begins with the words, "For keeping in good order the fire alarm system," and ends with the words, "direction and control of the Committee on Police," and substituting in the place of the words thus stricken out the words, "For keeping in good order the fire alarm telegraph system and the police signal telegraph system, and in regard thereto, and to all electrical lines and apparatus of the city, he shall be subject to the orders and direction of the Committee on Electric Lines, and may employ assistance under the direction of such committee."

Section 2. This ordinance shall take effect upon its passage.

Approved June 11, 1896.

Published in Somerville Journal of June 27, 1896.

No. 63.

AN ORDINANCE FOR THE REGULATION OF PLUMBING.

Be it ordained by the City Council of the City of Somerville, as follows:—

LICENSE TO PLUMBERS.

Section 1. No person, firm, or corporation shall hereafter engage in or work at the business of plumbing in this city, either as a master or employing plumber, or as a journeyman plumber, unless such person, firm, or corporation shall have first received, and holds, a valid and unexpired and unrevoked license or certificate therefor from the inspector of buildings, or holds such valid and unexpired and unrevoked license or certificate from the inspector of buildings or board of health of some other city or town of this Commonwealth.

APPLICATIONS FOR LICENSES OR CERTIFICATES.

Section 2. Applications for such licenses or certificates shall be made to the inspector of buildings.

CERTIFICATES.

Section 3. A master or employing plumber and a journeyman plumber, engaged in or working at the business of plumbing in this Commonwealth prior to the tenth day of July, 1893, and desiring to engage in or work at said business in this city, and who has registered according to the provisions of section two of chapter four hundred and fifty-five of the Acts of 1894 shall be entitled to a certificate from the inspector of buildings, as provided in said section two.

LICENSES.

Section 4. Any person desiring to engage in or work at the business of plumbing, either as a master or employing plumber or as a journeyman plumber, shall make application as aforesaid to the inspector of buildings, which application shall be

referred to the board of examiners hereinafter provided for, and the applicant will be examined by said board of examiners as to his qualifications for such business, and if said board shall be satisfied of the competency of the applicant he shall receive from the inspector of buildings an annual license authorizing him to engage in or work at the business of plumbing, either as a master or employing plumber or as a journeyman plumber.

FEES, ETC., FOR LICENSES AND CERTIFICATES.

Section 5. The fee for a license or a certificate for a master or employing plumber shall be two dollars; for a journeyman plumber, it shall be fifty cents. Licenses shall be renewed annually upon payment of a fee of fifty cents. In the case of a firm or corporation, the examination and licensing of or the registration and granting a certificate to, any one member of the firm or the manager of the corporation shall satisfy the requirements of this act.

BOARD OF EXAMINERS.

Section 6. There shall be a Board of Examiners of Plumbers, consisting of the chairman of the board of health, the inspector of buildings, who shall be members ex-officio of said board of examiners and serve without compensation, and a third member, who shall be a practical plumber within the meaning of that term, as defined in section one of said chapter 455, and who shall have had at least five years' continued practical experience either as a master or a journeyman during the years next preceding the date of appointment, and said third member shall be appointed by the board of health for the term of one year from the first day of May in the year of his appointment and shall be appointed annually before the first day of June and shall receive such compensation, not to exceed five dollars for each day of actual service, as the city council may determine.

Said Board of Examiners shall, as soon as may be after the appointment of said third member, annually meet and organize by the selection of a chairman, and shall then designate the times and places for the examination of all applicants desiring to

engage in or work at the business of plumbing within the city, and shall examine said applicants as to their practical knowledge of plumbing, house drainage and plumbing ventilation, and shall submit the applicant to some satisfactory form of practical test, and if satisfied of the competency of the applicant shall so certify to the inspector of buildings.

INSPECTOR OF PLUMBING,

Section 7. The inspector of buildings shall appoint an inspector of plumbing, who shall be a practical plumber of at least five years' continued practical experience, either as master or as journeyman, during the years next preceding the date of appointment, and who shall hold office until removed by the inspector of buildings for cause, which must be shown. Said inspector of plumbing shall before appointment be subjected to an examination before the civil service commission. The inspector of plumbing shall have an annual salary to be determined by the inspector of buildings, subject to the approval of the city council, and said inspector of plumbing shall not engage in or work at the business of plumbing. The inspector of plumbing shall inspect all plumbing work for which permits are hereafter granted, in process of construction, alteration or repair, and shall report to the inspector of buildings all violations of any law, ordinance, by-law, rule, or regulation relating to plumbing work, and also perform such other appropriate duties as may be required by the inspector of buildings, and in general shall be subject to the direction of the inspector of buildings.

REGISTRATION OF PLUMBERS.

Section 8. Every person, firm, or corporation engaging in or working at the business of plumbing in this city, either as a master or employing plumber, shall register his name and place of business in the office of the inspector of buildings, and notice of any change in the place of business of a registered plumber shall be immediately given to the inspector of buildings, and no such person, firm, or corporation shall do any plumbing work in this city until such registration shall have been made.

INSPECTOR OF BUILDINGS TO SUPERVISE PLUMBING.

Section 9. The inspector of buildings shall have control of the enforcement of the regulations regarding plumbing and the general supervision of the business and inspection of plumbing, and of the enforcement of all laws and ordinances in regard thereto.

PERMITS, ETC., FOR PLUMBING.

Section 10. The rules and regulations in this ordinance contained are prescribed for the materials, construction, alteration and inspection of all pipes, fittings, tanks, faucets, valves and other fixtures by and through which waste water or sewage is used and carried, and no such pipes, tanks, faucets, valves, materials, or other fixtures shall be placed in any building in this city except in accordance with plans which shall before such placing of any such fixtures be submitted to and approved by the inspector of buildings, and which shall conform to the provisions of this ordinance, and no plumbing work shall be done, except in the case of repair of leaks, without a permit being first issued therefor by the inspector of buildings; and every person before doing any such plumbing work in a building or making connections with any drain or sewer shall file in the office of the inspector of buildings plans in accordance with which the pipes, tanks, faucets, valves, and other fixtures are to be placed in the building, and upon blanks provided for that purpose a notice of the work to be performed, with such specifications in regard to such work as said inspector shall require, and shall obtain from such inspector a permit to do such work and the approval of said plans and specifications; and no such work or any plumbing work shall be done in any building except subject to the approval of the inspector of buildings, and in accordance with the aforesaid plans, notice, specifications, permit, and any ordinance of the city or any law applicable to such work.

INSPECTION OF PLUMBING.

Section 11. Pipes and other fixtures shall not be covered or concealed from view until inspected and approved under the direction of the inspector of buildings by an inspector of plumbing, who shall examine the same within two working days after notice that they are ready for inspection. Any plumbing work or materials not done and furnished in any building to the approval of the inspector of buildings and in accordance with said plans, notice, specifications and permit, and any ordinance of the city or any law applicable to such work, shall be upon the order of the inspector of buildings forthwith removed by the plumber who furnished such work or materials, or changed and completed as he shall direct.

CONNECTION WITH SEWER.

Section 12. The plumbing of every building shall be separately and independently connected with the public sewer, when such sewer is provided, or with a proper and sufficient drain connected thereto outside of the building; and if a sewer is not accessible, with a proper cesspool, which shall be built as the inspector of buildings or board of health shall require; and in no case shall the drain or soil pipe be used for more than one dwelling or for more than one dwelling in a block of two or more houses, but a block of two houses may be connected with the public sewer through one pipe, connections being made five feet outside of the building.

CONNECTION WITH SEWER OR CESSPOOL.

Section 13. Every building provided with water from the city or other water supply shall have a waste pipe, for the conveyance of waste water or sewage, connected with the public sewer or with a particular sewer, or, if there is no such sewer, with a cesspool, constructed as aforesaid as the inspector of buildings or board of health shall require. No drain or sewer from any building shall, without the approval of the inspector of buildings, pass under another building, and no drain or sewer

shall pass within five feet of the outside of the foundation walls of any other building, unless it be of iron pipe of such weight and so laid as the inspector of buildings shall approve.

EXCEPTIONS FROM ORDINANCE.

Section 14. The inspector of buildings may, with the approval of the board of health, except from the operation of such of the provisions of this ordinance as he shall deem advisable, any building not constructed, and not to be used, for and as a dwelling house or place of business.

TEST OF PLUMBING.

Section 15. Plumbing work shall not be used unless the same has first been, under the direction of the inspector of buildings, approved and tested by an inspector of plumbing, with the water test, or, if that is not practicable, with peppermint or other reliable test, approved by the inspector of buildings, and all connections must be made of all pipes, traps and other fixtures, and the pipes shall be permanently secured before the test is made. Pipes or other fixtures or material found upon inspection to be defective shall be removed.

MATERIAL OF DRAIN PIPES.

Section 16. Drain and connecting ventilating pipes shall be of a size approved by the inspector of buildings, and made of cast or standard wrought iron, within the building, and for a distance of at least ten feet outside, except that lead pipes may be used for short connections. Such pipes, if of wrought iron, shall be of standard weight and strength, and if of cast iron, shall be of uniform thickness throughout, and when placed in or below the cellar floor shall weigh as specified in section seventeen of this ordinance.

Such portions of drains as are outside of buildings and more than ten feet distant from the foundation walls, shall be constructed of extra heavy cast-iron or vitrified drain pipe; joints on

cast-iron pipe shall be set straight and filled with molten lead and thoroughly calked and made tight without the use of any material other than oakum and lead; connection of lead pipes with standard cast or wrought-iron pipes shall be made with standard brass ferrules or solder nipples; connection of lead pipes with extra heavy cast-iron pipes shall be made with extra heavy brass ferrules; all to be to the satisfaction of the inspector of buildings or the inspector of plumbing.

WEIGHT OF IRON PIPES.

Section 17. From and after the thirty-first day of October in the present year (1896), all cast-iron pipes used in plumbing within any building shall be plain and without tar, paint or other coating and shall have an average weight of not less than that below specified, namely:

2 inch pipe.....	5½ lbs. per foot
3 inch pipe.....	9½ lbs. per foot
4 inch pipe.....	13 lbs. per foot
5 inch pipe.....	17 lbs. per foot
6 inch pipe.....	20 lbs. per foot
8 inch pipe.....	33 lbs. per foot
10 inch pipe.....	45 lbs. per foot
12 inch pipe.....	54 lbs. per foot

TRAPS, VENTILATORS, ETC.

Section 18. Drain pipes shall be properly secured every seven feet by irons to walls, laid in trenches to uniform grade, or suspended to floor timbers by strong iron hangers. Every drain pipe shall be supplied with a running trap placed outside of all connections, with an accessible cleanout at or near the point where it leaves the building, and shall have a fall of not less than one inch in sixty inches. Drain pipes (and branches of the same, when required by the inspector of buildings), shall be carried above the roof, open and of size approved by the inspector of buildings, not smaller than the branch for the largest

fixture connection, and to a sufficient height, not less than two feet above the roof and not less than five feet above the top of any window within ten feet.

Where the drain pipe passes through the roof, it shall have a copper or heavy lead flashing. Changes in direction shall be made with curved pipes, and connections with horizontal or vertical lead or iron waste or drain pipe shall be made with Y branches where practicable.

TRAPS AND CLEANOUTS.

Section 19. There shall be an accessible cleanout placed at the foot of each vertical line of soil or waste pipe, on the sewer side of the running trap and in such other positions as the inspector of buildings shall require. All traps and cleanouts shall be of a size and pattern approved by such inspector.

DRAIN PIPES EXPOSED.

Section 20. All drain pipes shall be exposed to sight, where practicable, within the building, and shall not be exposed to pressure where they pass through walls. When required by the inspector of buildings, drain pipes below a cellar floor shall be laid in a brick trench with a concrete bottom, and shall be accessible through sufficient unattached covers.

SURFACE WATER LEADERS.

Section 21. Rain water leaders, when connected with soil or drain pipe, shall be suitably trapped. Blind drains or surface water leaders, when connected with drain pipe, shall have a trap and back water gate and shall be flushed by a conductor or other means. Said leaders shall in no case be used to drain other than rain or surface water. No rain-water leader or surface-water leader shall in any case connect with, or discharge into, any soil pipe or drain pipe, connected or to be connected, directly or indirectly, with any common sewer, or the contents of which, directly or remotely, flow or may flow into any common sewer, within those districts in this city within which it has been

or may be provided by ordinance of the city that roof water or storm water or surface water shall be excluded from the sewers.

JOINTS.

Section 22. All joints on lead waste and vent pipe on the drain side of the trap shall be wiped around branch or flange joints. Joints on waste or vent pipes requiring washers or packing shall be avoided.

TRAPS.

Section 23. Every sink, basin, bath tub, water closet, slop-hopper and each set of wash trays or other fixtures connecting with the drainage system shall, except as hereinafter provided, waste through a separate and independent trap, which shall be placed as near as practicable to the fixture that it serves. One trap may be permitted to serve for one sink and one set of two wash trays, one bath tub and one wash basin, provided that they are in the same room and that separate connections be made with the trap, which shall not be less than four inches in diameter, and that the waste pipe be not more than three and one-half feet in length from the trap to the fixture.

SIZE OF WASTE PIPES.

Section 24. Waste pipes of less than two inch bore shall be of lead or brass. Waste or vent pipes shall be of a size approved by the inspector of buildings, and if of lead, shall weigh not less than as below specified, namely:—

1 $\frac{1}{4}$ inch pipe.....	2 $\frac{1}{2}$ lbs. per foot
1 $\frac{1}{2}$ inch pipe.....	3 lbs. per foot
1 $\frac{3}{4}$ inch pipe.....	3 $\frac{1}{2}$ lbs. per foot
2 inch pipe.....	4 lbs. per foot
3 inch pipe.....	6 lbs. per foot
4 inch pipe.....	8 lbs. per foot

Where two or more lead or brass waste pipes join the main waste pipe, such main waste pipe shall be of a size approved by the inspector of buildings.

TRAPS NOT TO CONNECT WITH VENT PIPES.

Section 25. No trap shall waste into a vent pipe or be connected with a waste or drain pipe in such a manner as may, when it is flushed, cause the seal of any other trap to be broken.

SYPHONAGE AND AIR PIPES.

Section 26. Traps shall be protected from syphonage or air pressure by cast or wrought iron air pipes (except that lead pipes may be used of a size not less than the waste pipe of the traps they serve), placed as the inspector of buildings may direct. Lead air pipes may be used only where they are exposed to view or cased with a removable casing. Air pipes shall be run without drainage point to the top of the fixture served and as direct as practicable.

Two or more air pipes may be connected together or with a drain pipe above the highest waste connection on the drain pipe. Air pipes for water closet traps shall be of two inch bore if thirty feet or less in length, and of three inch bore if more than thirty feet in length. Air pipes of less than two inch bore shall not exceed twenty-five feet in length and when run through external wall or roof shall be increased to two inch bore. All air pipes shall rise continuously from the trap when practicable, and shall drain to some point.

GREASE TRAPS.

Section 27. A grease trap shall be constructed under the sink of every hotel, eating-house, restaurant or other public cooking establishment in such a manner as to be easily accessible for inspection and cleaning.

TANKS AND OVERFLOW PIPES.

Section 28. Tanks supplied from street service pipes shall have a one inch overflow pipe. Drip or overflow pipes from safes under water closets or other fixtures, or from tanks or cis-

terns shall be run to some place approved by the inspector of buildings in open sight and in no case shall any such pipe be connected directly with a drain pipe. No waste from a refrigerator or other receptacle in which provisions are stored shall be connected with a drain pipe.

WATER CLOSETS.

Section 29. Every water closet or line of water closets on the same floor shall be supplied with water from a tank or cistern and shall have a flushing pipe of not less than one inch in diameter; but this requirement shall not apply to closets substituted for vaults where the same are located outside the building proper, and such water closets may be arranged so as to receive their supply directly from the main, with proper fixtures approved by the water board and inspector of buildings.

WATER CLOSETS.

Section 30. All earthenware closets shall be connected with a brass floor flange strongly soldered to the lead bend, bolted, and a gasket or packing used approved by the inspector of buildings. No pan water closet shall be permitted or any sluice vault of brick, stone or cement.

WATER CLOSETS.

Section 31. Every building hereafter erected or reconstructed or converted to use as a dwelling shall have at least one water closet for each and every family, and every water closet shall have a window of at least three square feet on the open air, or, in buildings already constructed, some other ventilation approved by the inspector of buildings. Local vents shall be placed where prescribed by the inspector of buildings.

ADDITIONS TO DRAINAGE.

Section 32. When in the opinion of the board of health it may be necessary as a health measure, upon its order addition shall be made to any part of the drainage system of any build-

ing, or any part of the drainage system of any building shall be reconstructed by the owner at his expense. In adding to or reconstructing any part of the drainage system or in substituting new fixtures for old, the waste and vent connections shall be as prescribed by the inspector of buildings.

STEAM EXHAUSTS.

Section 33. No steam exhaust shall be connected with any public sewer or any soil pipe or waste or drain pipe which communicates with a public sewer.

SERVICE PIPES.

Section 34. Service pipes from street to building shall be not less than three-quarter inch galvanized iron or five-eighth inch two and one-half pound lead pipe and shall have a round way stop and waste cock of same size as the service pipe. Water pipe in exposed places shall be properly protected from frost. Lead water pipes shall be of a weight not less than that below specified, namely:—

Street Pressure.		Tank Pressure.	
$\frac{3}{8}$ inch.....	1 $\frac{1}{2}$ lbs. per foot.....	1 $\frac{1}{2}$ lbs. per foot	
$\frac{1}{2}$ inch.....	2 lbs. per foot.....	1 $\frac{3}{4}$ lbs. per foot	
$\frac{5}{8}$ inch.....	2 $\frac{1}{2}$ lbs. per foot.....	2 lbs. per foot	
$\frac{3}{4}$ inch.....	3 lbs. per foot.....	2 $\frac{1}{2}$ lbs. per foot	
1 inch.....	4 lbs. per foot.....	3 lbs. per foot	

APPROVAL OF DRAINAGE SYSTEM.

Section 35. No drainage system or plumbing work shall be considered approved until a certificate of approval has been granted by the inspector of buildings.

MEANING OF ORDINANCE.

Section 36. All questions as to the intent and meaning of the provisions of this ordinance, or any question not covered by this ordinance, shall be decided by the inspector of buildings; provided that any person dissatisfied or aggrieved by his decision may appeal to the board of aldermen, whose decision shall be final.

ALTERATIONS.

Section 37. Any person or persons receiving a written notice from the inspector of buildings or his agent, served upon him or them, of any violation of these regulations, shall, within ten days, make such alterations as are called for in said notice.

PENALTIES.

Section 38. Any owner, lessee, contractor, workman, agent or any other person violating any provision of this ordinance, shall be subject to a fine not exceeding fifty dollars for each and every violation thereof, and if such person has received a license under this ordinance or under said chapter four hundred fifty-five of the Acts of 1894, his license may be revoked by the inspector of buildings, and if the violation shall be committed by one holding a license issued from another city or town, the inspector of buildings may forbid him to engage in or work at the business of plumbing in the City of Somerville for a period not exceeding one year. If the person committing the violation hold a license issued by the inspector of buildings of the City of Somerville, said inspector may forbid him to engage in or work at the business of plumbing in the City of Somerville for a period not exceeding one year. Any person engaging in or working at the business of plumbing in this city after he has been forbidden so to do by the inspector of buildings as aforesaid shall be subject to a fine not exceeding one hundred dollars for every such offence, as provided by law.

REPEALS OF ORDINANCES.

Section 39. An ordinance, entitled "An Ordinance for the Regulation of Plumbing," passed by the city council and approved by the mayor December 4, 1893, is hereby repealed, but such repeal shall not affect any act done, any right accrued, any penalty or liability incurred, any suit, prosecution or proceeding pending or the tenure of office of any person holding office under said repealed ordinance at the time when this ordinance takes

effect, nor shall the repeal of said ordinance, approved December 4, 1893, have the effect of reviving any ordinances repealed or superseded by said ordinance approved December 4, 1893.

Section 40. This ordinance shall take effect upon its passage.

Approved October 10, 1896.

Published in Somerville Citizen of November 6, 1896.

No. 64.

AN ORDINANCE TO AMEND CHAPTER SEVENTEEN, ENTITLED
“FIRE DEPARTMENT,” OF THE REVISED ORDINANCES
OF 1891.

*Be it ordained by the City Council of the City of Somerville,
as follows:—*

Section 1. Section one of chapter seventeen of the Revised Ordinances of 1891 is hereby amended by inserting in the first paragraph thereof after the word “companies” the words— and relief drivers—so that as amended the said paragraph shall read as follows: Section 1. The fire department shall consist of a chief engineer and one assistant engineer, and as many engine, hose, hook and ladder, and other companies, and relief drivers, as the city council shall from time to time determine.

Section 2. Section one of said chapter seventeen is hereby amended by striking out the third paragraph, relating to chemical engine companies, of said section, and inserting in place thereof the following paragraph: Each chemical engine company shall consist of a hoseman, a driver, and an operator of chemical tanks, one of whom shall be lieutenant and shall also perform the duties of clerk. When a chemical engine company is housed separately, the lieutenant of such company shall have the authority and responsibility and perform the duties of captain, except that at fires he shall, under the provisions of section four of this ordinance, take precedence according to his rank as a lieutenant.

Section 3. Section one of said chapter seventeen is hereby amended by inserting at the end of said section the following paragraph: Provided, however, that when two or more companies are housed in the same station and are not provided with separate quarters therein, one only of such companies shall have a captain, and he shall have the authority and responsibility and perform the duties of that office with reference to all of such companies, except that, when in attendance at alarms of fires and in going to and returning from the same, such authority, responsibility, and duties shall devolve, with reference to all such companies other than his own, upon their respective lieutenants.

Section 4. Section eight of said chapter seventeen is hereby amended by striking out all of said section and inserting in place thereof the following: Section 8. The men permanently employed in the fire department shall be allowed twenty-two hours' leave of absence as often as once in ten days, the time of such absence of each man to be designated by the chief engineer, provided that in the judgment of the chief engineer such leave of absence will not interfere with efficient service. Whenever in the judgment of the chief engineer the public safety requires the attendance of all the permanent members of the fire department, he may temporarily discontinue such leave of absence.

Section 5. This ordinance shall take effect upon its passage.

Approved December 7, 1896.

Published in Somerville Journal December 26, 1896.

No. 65.

AN ORDINANCE FIXING THE SALARY OF THE MAYOR.

Be it ordained by the City Council of the City of Somerville, as follows:—

Section 1. From and after the first Monday of January, in the year one thousand eight hundred and ninety-seven, the salary of the Mayor shall be the sum of two thousand five hundred dollars per annum.

Approved December 7, 1896.

Published in Somerville Citizen of December 24, 1896.

JURY LIST.

CITY OF SOMERVILLE.

IN BOARD OF MAYOR AND ALDERMEN, March 24, 1897.

ORDERED. —

That the city clerk be, and he hereby is, instructed to cause to be published with the annual reports for the year 1896, the jury list, of the city, agreeably to the provisions of section 3, of chapter 514, of the Acts of the year 1894.

IN BOARD OF ALDERMEN, March 24, 1897.

Read twice and adopted, and sent down for concurrence.

GEORGE I. VINCENT, *Clerk.*

IN COMMON COUNCIL, March 25, 1897.

Read twice, and adopted in concurrence.

CHARLES S. ROBERTSON, *Clerk.*

Approved March 26, 1897.

ALBION A. PERRY, *Mayor.*

JURY LIST OF THE CITY OF SOMERVILLE.

NAME.	RESIDENCE.	OCCUPATION.
A		
Abbott, Charles O.,	133 Pearl street,	Contractor and builder.
Abbott, Alonzo F.,	8 Concord avenue,	Clerk.
Adams, Charles W.,	117 Highland avenue,	Jeweller.
Alden, Fred B.,	26 Dane avenue,	Driver.
Aldrich, Francis S.,	246 Broadway,	Moulder.
Allen, Hiram,	230 Washington street,	Music teacher.
Alley, Charles S.,	149 Hudson street,	Building material, etc.
Ames, Nathan W.,	20 Webster avenue,	No occupation.
Anderson, Charles W.,	54 Hanson street,	Laborer.
Anderson, Peter,	34 Joy street,	Teamster.
Andrews, John,	34 Albion street,	Agent.
Armington, J. Russell,	226 Elm street,	Insurance agent.
Armstrong, George D.	15 Dane street,	Expressman.
Armstrong, Thomas W.,	39 Partridge avenue,	Sawyer Am. Tube Works.
Arnold, E. Olney,	17 Carlton street,	Carpet cleaning.
Ashworth, John,	104 Cross street,	Mechanical draughtsman.
Attwood, J. Lorenzo,	18 Herbert street,	Bookkeeper Mt. Auburn Cemetery.
Atwood, Benjamin R.,	49 Temple street,	Bookkeeper.
Atwood, Ebenezer L.,	9 Pearl street,	Grocer.
Avery, John,	22 Dartmouth street,	Produce.
Ayer, Fred C.,	160 Highland avenue,	Lumber and wood.
Ayer, John F.,	17 Walter street,	Lumber and wood.

JURY LIST — *Continued.*

NAME.	RESIDENCE.	OCCUPATION.
B		
Babb, Nathaniel F.,	193 School street,	Salesman.
Bacon, M. Clinton,	27 Chester street,	Coal and wood.
Bacon, Oliver,	19 Pembroke street,	Clerk.
Bailey, George T.,	49 Putnam street,	Newsdealer and stationer.
Baker, Roger H.,	9 Bedford street,	Cooper.
Baldwin, Arthur C.,	29 Albion street,	Clerk.
Barker, Lewis J.	212 Norfolk street,	Teamster.
Barker, Thomas E.,	15 Dimick street,	Coffin maker.
Barnard, Thomas L.,	11 Grant street,	Fish.
Bean, Enoch T.,	41 Prospect street,	Clerk.
Bean, Gerard D.,	9 Bradford avenue,	Bookkeeper.
Beckwith, George C.,	13 Brastow avenue,	Mechanical engineer.
Bedell, Charles E.,	12 Carlton street,	Clerk.
Belding, Oscar H.,	62 Hudson street,	Carpenter.
Bent, Charles E.,	rear 9 Marian street,	Carpenter.
Bent, Thomas A.,	120 Summer street,	Carpenter.
Berton, John F.,	403 Highland avenue,	Painter.
Berry, Charles M.,	14 Miller street,	Provisions.
Bickford, Frank W.,	76 Curtis street,	Carpenter and builder.
Bickford, Frederick H.,	44 Irving street,	Carpenter.
Binney, Martin,	9 Linden place,	Claim agent.
Black, Bernard,	632 Somerville avenue,	Dyer Middlesex Bleachery.
Blake, Charles M.,	13 Preston street,	Newsdealer.
Blaisdell, Charles E.,	25 Quincy street,	Machinist.

JURY LIST -- Continued.

NAME.	RESIDENCE.	OCCUPATION.
Blaskovec, Frank,	240 Columbia street,	Cabinet maker.
Bonner, William H.,	20 Columbus avenue,	Car conductor.
Booth, Charles,	563 Broadway,	Coal and wood.
Bowen, Cornelius,	128 Linwood street,	Safe and machine mover.
Bowers, Frank H.,	47 Franklin street,	Painter.
Bowie, David,	11 Belmont street,	Machinist.
Bowker, Frank P.,	67 Walnut street,	Clerk.
Bowman, Sumner E.,	26 Dover street,	Mason.
Boyle, William E.,	110 Concord avenue,	Grocer's clerk.
Brackett, Walter S.,	16 Greene street,	Travelling salesman.
Bradley, Daniel,	19 Concord avenue,	Barrels.
Bradley, Dennis E.,	303 Washington street,	Ornamenter.
Brennan, Stephen,	70 Oxford street,	Mason and builder.
Brigham, Charles A.,	3 Dell street,	Salesman.
Broadhead, William H.,	61 Summer street,	Electric supplies.
Brown, Charles E.,	36 Albion street,	Carpenter.
Brown, Frank A.,	12 Otis street,	Hairdresser.
Brown, John H.,	311 Washington street,	Painter.
Bryant, John E.,	24 Grant street,	Undertaker.
Bryant, Thomas H.,	6 Edmands street,	Receiving clerk.
Bucknam, Davis P.,	12 Vine street,	Mason.
Bucknam, William E.,	341 Beacon street,	Mason.
Bunten, Frederick R.,	38 Cherry street,	Feather duster manufacturer.
Burbank, Monroe A.,	9 Autumn street,	Butter and cheese.
Burbank, Winfield S.,	2 Jaques street,	Sawdust.
Burgess, T. Waldo,	12 Grandview avenue,	Salesman.

JURY LIST — *Continued.*

NAME.	RESIDENCE.	OCCUPATION.
Burns, Robert,	61 Mt. Vernon street,	Milk inspector.
Burns, Samuel A.,	77 Pearl street,	Milk driver.
Butler, James H.,	40 Gilman street,	School furniture.
Butler, John S.,	113 Cross street,	Spice Grinder.
Butman, Rolla J.,	438 Broadway,	Clothing cutter.
Byam, Augustus B.,	7 Melvin street,	Soap manufacturer.
C		
Cahill, Cornelius J.,	18 Bow street,	Lather.
Callow, John R.,	88 Newton street,	Porter.
Cammon, J. Albert,	398 Highland avenue,	Clerk.
Canfield, George L.,	26½ Vinal avenue,	Clerk.
Caples, Philip,	42 Craigie street,	Butter, etc.
Card, Frederick L.,	243 Pearl street,	Provisions.
Carpenter, Lewis J.,	3 Centre street,	Metal spinner.
Carpenter, Reuben,	10 Fountain avenue,	Engraver.
Carr, Albert E.,	157 Central street,	Clerk at American Express Office.
Carter, Thomas F.,	32 Summer street,	Provisions.
Cass, Lewis E.,	33A Bow street,	Lather.
Chamberlin, Russell T.,	7 Winter street,	Real estate.
Chambers, John,	19 Linden street,	Elevator man.
Chapin, Hiram O.,	44 Dover street,	Commission merchant.
Chase, Charles D.,	18 Ivaloo street,	Engineer.
Chase, George H.,	45 Cherry street,	Salesman.
Cheney, Frederick E.,	13 Oakland avenue,	Grocer.
Churchill, Algernon H.,	10 Thurston street,	Superintendent.

JURY LIST—Continued.

NAME.	RESIDENCE.	OCCUPATION.
Clark, Cyrus D.,	30 Everett avenue,	Sexton Perkins Street Baptist Church.
Clark, Frederick E.,	10 Cedar street,	Clerk.
Clark, George W.,	174 Pearl street,	Groceries and provisions.
Clark, Isaac H.,	49 Brastow avenue,	Mechanical engineer.
Clark, S. Adams,	11 Clark street,	No occupation.
Clough, Edward H.,	7 Maple avenue,	Carriage painter.
Coan, Francis E.,	156 Pearl street,	Stair builder.
Coburn, Frank I.,	55 Bow street,	Clerk.
Coburn, Fred L.,	47 Mt. Vernon street,	Printer and stationer.
Coffin, Edward B.,	94 Albion street,	Real estate, insurance and mortgages.
Coffin, Winslow W.,	186 Broadway,	Real estate and insurance.
Colby, Luther,	217 Beacon street,	Janitor Durell School.
Colgate, Charles H.,	92 Glen street,	Extract manufacturer.
Collins, Harvey G.,	85 Washington street,	Blacksmith.
Concannon, John H.,	135 Linwood street,	Peddler.
Condit, Sears,	255 Medford street,	Hatter.
Comee, Edgar F.,	54 Chandler street,	Travelling salesman.
Conway, William F.,	19 Laurel street,	Engraver Middlesex Bleachery.
Cook, Franklin A.,	468 Somerville avenue,	Carriage trimmer.
Cook, Levi F. Jr.,	9 Thorpe place,	Salesman.
Copithorne, John,	81 School street.	Carpenter F. R. R.
Cosgrove, Charles M.,	31 Ware street,	Clerk.
Cox, Thomas J.,	84 Vine street,	Laborer.
Craig, John W.,	19 Franklin avenue,	Blacksmith.
Crawford, J. Arthur,	19 Eastman place,	Carpenter.
Crimmings, Timothy F.,	3 Maple street,	Teamster and contractor.

JURY LIST—Continued.

NAME.	RESIDENCE.	OCCUPATION.
Cross, John T.,	65 Oxford street,	Salesman.
Crosskill, Nelson,	402 Highland avenue,	General Manager Angier Chemical Co.
Cullin, Edwin,	222 Broadway,	Wholesale provisions.
Cummings, George W.,	51 Wallace street.	Driver.
Cunningham, William F.,	78 Washington street,	Foreman.
Curran, Reuben L.,	25 Wesley street,	Foreman cabinet maker.
Currier, James H.,	9 Mossland street,	Manager.
Currier, Samuel E.,	9 Howe street,	Real estate and insurance.
Cushing, Samuel B.,	20 Weare street,	Broker.
Cushing, William E.,	8 Dell street,	Clerk in P. O. Boston.
D		
Dadmun, Henry H.,	52 Oxford street,	Salesman.
Dale, George R.,	73 Walnut street,	Clerk.
Daniels, Gardner F.,	18 Hathorn street,	Drug broker.
Daniels, Joseph,	93 Concord avenue,	Carpenter.
Daniels, Theodore P.,	137 Pearl street,	Showcase maker.
Darling, Charles S.,	20 Gorham street,	Whip manufacturer.
Davenport, Foster L.,	15 Gore street,	Shipper.
David, James B.,	78 Belmont street,	No occupation.
Davis, Albert M.,	16 Chauncey avenue,	Teamster.
Davis, Charles S.,	94 Pearl street,	Electrician.
Davis, Fred E.,	85 Pearl street,	Bookkeeper.
Davis, George A.,	6 Olive square,	No occupation.
Davis, George M.,	20 Arthur street,	Mason and builder.
Davis, Thomas L.,	50 Mt. Vernon street,	Burlaps, etc.

JURY LIST — *Continued.*

NAME.	RESIDENCE.	OCCUPATION.
Dawes, Henry L.,	8 Ashland street,	Confectioner.
Dawson, Howard,	67 Albion street,	Clerk.
Dearborn, Luther G.,	169 Sycamore street,	Coffee.
De Coster, Verin,	43 Lowell street,	Salesman.
Dervan, William B.,	8 Spring street,	Clerk.
Desmond, Daniel W.,	1 Montrose street,	Real estate and mortgages.
Dewire, Michael H.,	399 Washington street,	Confectionery.
Dimick, Charles W.,	122 Line street,	Manager.
Dodge, Edwin G.,	21 Benedict street,	Photographer.
Doe, Freeland A.,	39 Temple street,	Cabinet maker.
Dolbear, Clinton E.,	134 Professors' row,	Electrical engineer.
Donnelly, Henry P.,	5 Joy street,	Plumber.
Donnelly, James H.,	26 Joy street,	Foreman.
Drake, James,	45 Berkeley street,	Carpenter.
Dresser, George H.,	193 School street,	Superintendent.
Drinkwater, Frank M.,	872 Broadway,	Clerk.
Driscoll, Martin E.,	rear 7 Bleachery court,	Painter.
Dunklee, Daniel D.,	9 Oakland avenue,	Stoves and furnaces.
Dusseault, John H.,	22 Mills street,	Ornamental carver.
Dustin, George E.,	7 Pearl street,	Leather dealer.
Dwyer, Edward,	159 Somerville avenue,	Marble worker.
Dyer, Henry H.,	32 Elm street,	Cigars.
E		
Earle, Charles A.,	87 Irving street,	Boots and shoes.
Eastman, James B.,	38 Chandler street,	Grocer.

JURY LIST—Continued.

NAME.	RESIDENCE.	OCCUPATION.
Eaton, William R.,	241 Highland avenue,	Confectioner.
Edgett, Reuben,	7 Francesca avenue,	Carpenter.
Edmands, John B.,	86 Avon street,	Stone ware manufacturer.
Egerton, Wales L.,	61 Beach street,	No occupation.
Elliott, George E.,	103 Jenny Lind avenue,	Grocer.
Ellis, Charles P.,	13 Thorpe place,	Driver.
Emerson, George W.,	5 Benedict street,	Bookkeeper.
Emerson, William J.,	104 Broadway,	Boots and shoes.
Evans, Francis W.,	32 Prospect street,	Teamster.
Evans, Henry,	11 No. Wyatt street,	Teamster.
Evans, Oscar W.,	54 Park street,	Foreman.
Evans, Patrick,	18A Lake street,	Laborer, F. R. R.
F		
Fales, Wymen E.,	44 Wallace street,	Salesman.
Field, Orton D.,	98 Jaques street,	Salesman.
Finnon, James R.,	36 Porter street,	Plumber.
Fisher, Arthur V.,	62 Evergreen avenue,	Agent.
Fisher, Emery B.,	110 Prospect street,	Clerk P. O. Boston.
Fisher, Frederick L.,	1 Washington street,	Travelling salesman.
Fisher, John,	26 Hancock street,	Printer.
Fisk, Ellsworth,	44 Heath street,	Clerk.
Fisk, Mark,	44 Heath street,	Travelling salesman.
Fitch, George W.,	71½ Florence street,	Job printer.
Flagg, Charles A.,	24 Gibbens street,	Salesman.
Flaherty, James P.,	12 Charles street,	Junk.

JURY LIST — *Continued.*

NAME.	RESIDENCE.	OCCUPATION.
Flanders, Albert F.,	16 Day street,	Manager.
Flitner, Arthur D.,	38 Day street,	Bookkeeper.
Flitner, George J.,	1 Clifton street,	Wool grader.
Flynn, Dennis F.,	67 Dane street,	Upholsterer.
Flynn, William H.,	67 Dane street,	Real estate and insurance.
Follett, Mellville C.	31 Hamlet street,	Salesman.
Foot, Edward H.,	138 Sycamore street,	Pickles.
Foss, Isaac L.,	48 Summer street,	Machinist.
Foster, Harlan E.,	17 Everett avenue,	Carpenter.
Foster, Henry,	23 Park street,	Book binder.
Foster, Jacob,	10 Mossland street,	Carpenter.
Fox, John,	283 Somerville avenue,	Laborer.
Francis, Weston O.,	16 Webster street,	Carpenter.
Fraser, Duncan A.,	13 Hammond street,	Carpenter.
Friend, Frederick W.,	22 Hancock street,	Plasterer.
Friend, William H.,	47 Dover street,	Salesman.
Fuller, Frank A.,	3 Sargent avenue,	Carpenter.
Fuller, Ormando H.,	148 School street,	Clerk.
Fulton, David,	4 Spring court,	Calendarer Middlesex Bleachery.
Furbush, George E.,	154 Walnut street,	Lard renderer.
Furbush, Richard R.,	18 Autumn street,	Clerk.

G

Gaffney, William H.,	13 Elmwood street,	Fish market.
Gage, Burt O.,	38 Dartmouth street,	Engineer.
Gage, Moses H.,	9 Montgomery avenue,	Watchman.

JURY LIST — *Continued.*

NAME.	RESIDENCE.	OCCUPATION.
Gale, Charles,	10 Brastow avenue,	Cabinet maker.
Gale, John S.,	6 Oliver street,	Machinist.
Galletly, Henry,	7 Franklin avenue,	Cordage manufacturer.
Garcelon, Herbert L.,	2 William street,	Student.
Geiling, Frederick A.,	11 Houghton street,	Foreman at N. E. D. M. & W. Co.
Gibby, Robert H. Jr.,	26 Mondamin court,	Coppersmith.
Gilbert, Francis C.,	29 Church street,	Hatter.
Gilman, John W.,	14 Clifton street,	Salesman.
Glines George G.,	21 Auburn avenue,	Glines & Co., express.
Goddard, Edward A. Jr.,	55 Irving street,	Clerk.
Goldthwait, Charles M.,	22 Broadway,	Salesman.
Good, Thomas,	30 Brastow avenue,	Salesman.
Goodwin, Maxwell J.	43 Pearl street,	Painter.
Googins, A. Eugene,	8 Montgomery avenue,	Gold plater.
Gordon, Arthur C.,	56 Oak street,	Painter.
Gordon, George A.,	54 Belmont street,	Agent.
Gordon, Orlando D.,	Wilson avenue,	Carpenter.
Gormly, Eugene,	19 Chestnut street,	Wholesale fruit dealer
Gray, Henry,	65 Murdock street,	Teamster.
Greeley, Fred L.,	37 Florence street,	Salesman.
Greer, George M.,	41 Moore street,	Shipper.
Grieves, Walter F.,	91 Thurston street,	Clerk.
Griffin, Augustus P.,	22 Richdale avenue,	Salesman.
Griffin, Daniel J.,	5 Summer street,	Travelling salesman.
Grimes, Alexander,	25 Austin street,	Teamster.

JURY LIST — *Continued.*

NAME.	RESIDENCE.	OCCUPATION.
Grove, William L., Guild, Julius J., Gurnham, Thomas,	63 Avon street, 325 Washington street, 36 Hancock street,	Bookkeeper. Provisions. Periodicals.
H		
Hadley, Walter M., Hager, Arvine, Hale, C. Warner, Haley, Dennis, Haley, Thomas A., Hall, Albert A., Hall, Charles A., Hall, William F., Hall, Winfield W., Hamill, Samuel S., Hancock, Robert A., Hands, Frederick W., Hanson, Fred H., Hanson, Frederick L., Hanson, Harvey, R., Hanson, William J., Harlow, George H., Harney, James H., Harvey, Henry E., Hatch, Arthur W., Hatch, Frederick A.,	24 Hathorn street, 19 Edmands street, 90 Central street, 27 Belmont street, 93 Linwood street, 64 Willow avenue, 44 Chauncey avenue, 345 Broadway, 32 Thorndike street, 356 Elm street, 163 Elm street, 38 Albion street, 9 Melvin street, 25½ Alston street, 73 Jaques street, 403 Somerville avenue, 7 Adams street, 56 Joy street, 17 Wellington avenue, 190 School street, 77 Jaques street,	Coal. Milk dealer. Tailor. Machinist. Barrels. Accountant. Provisions. Accountant. Furniture, stoves, etc. Organ builder. Hostler. Watchmaker. Baker. Leather inspector. Electrician. Plumber. Salesman. Clothing cutter. Teamster. Grocer. Teamster.

JURY LIST — *Continued.*

NAME.	RESIDENCE.	OCCUPATION.
Hatch, George G.,	15 Greenville street,	Painter.
Hathaway, Charles B.,	17 Park street,	Bookbinder.
Hathaway, Henry C.,	12 Pembroke street,	Painter.
Hayward, Waldo B.,	21 Cherry street,	Clerk.
Hayward, Wales A.,	21 Cherry street,	No occupation.
Heintz, George,	36 Hudson street,	Undertaker.
Heminway, Charles,	13 Walnut street,	Assistant bookkeeper.
Hicks, Arthur T.	13 Robinson street,	Caterer.
Higgins, John,	38 Linwood street,	Dry goods.
Higgins, Frederick W.,	75 Hudson street,	Salesman.
Hobart, Franklin A.,	18 Francesca avenue,	Foreman.
Hodgman, Augustus,	8 New Cross street,	Collector.
Holden, John,	76 Prospect street,	Produce.
Holmes, Charles A.,	263 Beacon street,	Stoves and plumbing.
Holt, Albert,	7 Kenwood street,	Produce.
Holt, Arthur C.,	197 Washington street,	Architect.
Holt, Edward M.,	32 Springfield street,	Machinist.
Holt, Harry,	91 Porter street,	Carpenter.
Honnors, John P. Jr.,	371 Summer street,	Shipper.
Hopkins, Charles O.,	212 Broadway,	Bookkeeper.
Horton, Calvin,	26 Everett avenue,	Contractor.
Horton, Charles H.,	101 School street,	Clerk.
Hubbard, Curtis A. L.,	22 Fremont street,	Clerk.
Hulsman, Chester R.,	48 Florence street,	Collector.
Hunt, Cassius,	218 School street,	Fish.
Hunter, William H.	53 Springfield street,	Glass engraver.

JURY LIST — *Continued.*

NAME.	RESIDENCE.	OCCUPATION.
Huntress, Franklin E.,	324 Elm street,	Iron.
I		
Ingalls, Oscar G.,	12 Munroe street,	Carpenter.
Ireland, Edwin,	35 Webster avenue,	Car painter.
Irish, Thaddeus P.,	3 Dartmouth street,	Bookkeeper.
Irwin, James J.,	41 Dane avenue,	Peddler.
J		
Jansson, Augustus L.,	102 Wallace street,	Travelling salesman.
Jerauld, Horace D.,	14 Chester avenue,	No occupation.
Jones, Enoch B.,	13 Hall street,	Painter.
Jones, Melville F.,	53 Walnut street,	Clerk.
Jones, William P.,	50 Vernon street,	Reporter, Somerville Journal.
Jordan, Edward E.,	102 School street,	Draughtsman.
Joy, Alden B.,	20 Belmont street,	Carpenter.
Judge, Daniel,	22 Rossmore street,	Laborer.
K		
Keane, John A.,	109 School street,	Piano tuner.
Kearney, Edward S.,	6 Charlestown street,	Clerk.
Keefe, William M.,	52 Cedar street,	Milk.
Keeler, Charles W.,	128 Central street,	Bookkeeper.
Kelley, Timothy J.,	17 Merriam street,	Clerk.
Kellogg, Harley R.,	1 Wyatt street,	Clerk.

JURY LIST — *Continued.*

NAME.	RESIDENCE.	OCCUPATION.
Kelly, Charles A.,	9 Brastow avenue,	Clerk.
Kelsea, Josiah E.,	233 Elm street,	Furniture and piano moving.
Kendall, Isaac B.,	338 Broadway,	Insurance agent.
Kendall, John,	64 Bonair street,	Teamster.
Keniston, Charles E.,	357 Somerville avenue,	Machinist.
Kennard, John F.,	5 Dartmouth street,	Salesman.
Kincaid, John E.,	74 Rush street,	Travelling salesman.
King, William L.,	16 Kenwood street,	Bookkeeper.
Kingman, Samuel W.,	44 Lake street,	Clerk.
Knowles, Abbott L.,	44 Webster street,	Bookkeeper.
Knowles, Daniel S.,	110 Perkins street,	Travelling salesman.
Knowles, Thomas,	27 Tyler street,	Foreman.
Knowles, Zoeth R.,	62 Bonair street,	Shipper.
L		
Lacount, Eugene D.,	34 Day street,	Bedding.
Lacy, Patrick,	63 Cherry street,	Mason.
Lailer, Charles O.,	369 Medford street,	Salesman.
Lamont, George D.,	13 Conwell avenue,	Provisions.
Lawler, John,	53 Joy street,	Laborer.
Lawson, George W.,	2 Lawson terrace,	Carpenter.
Lawson, Munroe C.,	41 Bow street,	Carpenter.
Leavitt, Frank W.,	468 Somerville avenue,	Carriage manf'r and sale and exchange stable.
Leavitt, George W. Jr.,	49 Jenny Lind avenue,	Clerk.
Le Cain, Joseph J.,	5 Elmwood street,	Real estate.

JURY LIST — Continued.

NAME.	RESIDENCE.	OCCUPATION.
Leman, Francis H.,	50 Morrison street,	Artist.
Leonard, Eugene C.,	107 Pearl street,	Ladies' Tailor.
Leonard, Thomas J.,	126½ Tremont street,	Laborer.
Libbey, Leonard M.,	10 Elmwood street,	Variety store.
Libby, George H.,	10 Ashland street,	Upholsterer.
Lincoln, Frank E.,	17 Endicott avenue,	Lunch room.
Lincoln, Uriah R.,	28 Summer street,	Carpenter.
Little, John K.,	93 Hudson street,	Bookkeeper.
Littlefield, Samuel T.,	321 Broadway,	No occupation.
Locke, John A.,	78 Cedar street,	Carpenter.
Look, George L.,	14 Arthur street,	Painter.
Loomer, Burpie M.,	11 Morgan street,	Clerk.
Lorentzen, Henry,	18 Waldo street,	Lock expert.
Loring, Edward D.,	5 Cross street,	Mason.
Lounsbury, George H.,	46 Houghton street,	Bookkeeper.
Loveland, Henry,	2 Cypress street,	Painter.
Lovering, Everett L.,	86 Myrtle street,	Music teacher.
Lovering, George H.,	18 Chauncey avenue,	Grocer.
Lovering, Joseph E. B.,	86 Myrtle street,	Druggist.
Lowell, Charles W.,	45 Kidder avenue,	Commission merchant.
Lund, Harrington C.,	16 Austin street,	Clerk.
Lynch, James B.,	571 Somerville avenue,	Boot and shoe maker.

M

MacNeil, John,	60 Winslow avenue,	Carriage builder.
Makechnie, Ernst H.,	238 Elm street,	Teacher of violin.

JURY LIST — *Continued.*

NAME.	RESIDENCE.	OCCUPATION.
Mann, Alfred E.,	75 Washington street,	Undertaker.
Marble, Benjamin,	54 Derby street,	Clerk.
Marshall, Charles E.,	63 Concord avenue,	Clerk.
Marshall, John A.,	97 Oxford street,	Salesman.
Martin, John W.,	16 Montgomery avenue,	Gilder.
Martis, Christopher,	42 Linwood street,	Cloth sponger.
Mayhew, Edgar T.,	14 Oakland avenue,	Assistant city assessor.
Mayhew, Josiah B.,	2 Thurston street,	Carriage woodwork.
Mayo, Frank E.,	42 Highland avenue,	Salesman.
Mayo, Timothy L.,	108 Highland avenue,	Ship chandler.
McAvoy, Henry,	117 Somerville avenue,	Hacks to let.
McDonald, William M.,	70 Cedar street,	Wholesale beef.
McFarland, Chester S.,	21 Cedar street,	Commission merchant.
McKenna, David W.,	7 Chestnut street,	Peddler.
Merrifield, John A.,	11 Tower court,	Stoves.
Merrill, David M.,	186 Broadway,	Collector, Driver's Union Ice Co.
Merrill, George H.,	3 Walnut street,	Telegraph operator.
Merry, Arthur L.,	41 Dover street,	Clerk.
Miles, Charles H.,	37 Sewall street,	Cigar manufacturer.
Milliken, Frank R.,	12 Chauncey avenue,	Truckman.
Mills, George W.,	26 Grant street,	Leather.
Mink, Louis,	85 Elm street,	No occupation.
Mongan, Manasses P.,	1 Garden court,	Salesman.
Moore, James J.,	45 Dane street,	Brass finisher.
Moore, James R.,	111 Medford street,	Teamster.

JURY LIST — *Continued.*

NAME.	RESIDENCE.	OCCUPATION.
Morrison, D. Henry, Mosher, Frederick A., Muldoon, Thomas F., Munroe, James, Murphy, Stephen F.,	27 Springfield street, 87 Sycamore street, 208 Somerville avenue, 91 Washington street, 372 Elm street,	Salesman. Wood moulder. Blacksmith. Carpenter. Buyer.
N		
Nash, Alfred T., Nealley, Edwin F., Nelson, Jesse L., Newcomb, Everett D., Nichols, John L., Nickerson, Alvano, T., Jr., Nickerson, John D., Nickles, James W., Niles, James H., Nolan, John A., Norris, Joseph C., Norwood, Frank B., Nye, Thomas, V. B.,	232 Elm street, 109 Glen street, 10 Sargent avenue, 28 Webster avenue, Westwood road, 334 Broadway, 5 Wellington avenue, 14 William street, 4 Fairlee street, 26 Prescott street, 47 Oak street, 6 Stickney avenue, 51 Cedar street,	Receiving clerk. Salesman. Carriage manufacturer. Boots and shoes. Wharfinger. Clerk. Clerk. Salesman. Meats. Glass blower, Union Glass Co. Steam fitter. Builder. Salesman.
O		
O'Connell, Michael, Onthank, Charles H., Orrill, Arthur W., Orton, Charles,	35 Linwood street, 47 Munroe street, 43 Morrison street, 60 Cross street,	Grocer. Provisions. Clerk. Paper hanger.

JURY LIST — *Continued.*

NAME.	RESIDENCE.	OCCUPATION.
Osborn, Edgar W.,	86 Porter street,	Clerk.
Osgood, Willard F.,	41 Heath street,	Clerk.
Owen, Charles A.,	36 Conwell avenue,	Clerk.
Owens, John W.,	373 Elm street,	At Fibre Co., N. Cambridge.
P		
Page, George Amos,	21 Webster avenue,	Plumber.
Paine, Charles H.,	11 New Church street,	Letter carrier.
Paine, Robert S.,	382 Elm street,	Bookkeeper.
Palmer, Edwin F.,	261A Broadway,	Painter.
Parsons, Charles F.,	16 Park street,	Clerk.
Parsons, John T.,	95 Lexington avenue,	Elevator builder.
Peake, Benjamin W.,	62 Central street,	Clerk.
Peck, Henry A.,	52 Pinckney street,	Printer.
Peckham, George W.,	17 Cambria street,	Real estate.
Peirce, Abner F.,	26 Bartlett street,	Salesman.
Pendleton, Martin V. B.,	63 Concord avenue,	Carpenter.
Perkins, Francis C.,	81 Pearl street,	Salesman.
Perkins, G. Henry,	14 Arthur street,	Insurance.
Perry, Irving S.,	16 Pleasant avenue,	Broker.
Perry, Oliver H.,	373 Elm street,	Real estate.
Philbrick, Charles S.,	50 Morrison street,	Milk inspector.
Phillips, Bernard C.,	8 Charlestown street,	Glass cutter.
Philpot, Moses A.,	10 Dell street,	Driver Boston Ice Co.
Plaisted, Harry F.,	17 Franklin street,	Salesman.
Pierce, George B.,	48 Quincy street,	Broker.

JURY LIST — *Continued.*

NAME.	RESIDENCE.	OCCUPATION.
Pilsbury, Fred J.,	39 Boston street,	Grocer.
Pitman, Henry W.,	77 Columbus avenue,	Journalist.
Porter, Frank E.,	69 Partridge avenue,	Bookkeeper.
Powers, Luray C.,	14 Moreland street,	Saw manufacturer.
Pratt, Edgar J.,	10 Park street,	Tin plate worker.
Pratt, Ransom D.,	76 Albion street,	Advertising agent.
Preston, Fred.,	51 Jaques street,	Milk dealer.
Prescott, Russell,	28 Park street,	Carpenter.
Prior, Charles W.,	95 Summer street,	Electrician.
Printiss, George C.,	48 Franklin street,	Carriage painter.
Prime, George W.,	78 Partridge avenue,	Painter.
Prichard, Charles E.,	145 Walnut street,	Salesman.
Prichard, George W.,	22 Cutter street,	Teamster.
Proctor, Amos L.,	54 Spring street,	Groceries and provisions.
Puffer, David, Jr.,	24 Hall avenue,	Produce.
Purrington, Frederick A.,	48 Dickinson street,	Collector.
Pushee, John C.,	22 Harvard place,	Brush manufacturer.
Quinlan, John J.,	607 Somerville avenue,	Trunk maker.
Ramsdell, Charles H.,		Real estate.
Rand, Homer E.,	53 Tufts street,	At National Despatch express office.
Randall, Lewis H.,	17 Putnam street,	No occupation.
Rawson, James,	28 Forest street,	House painter.
	24 Marshall street,	

Q

R

JURY LIST — *Continued.*

NAME.	RESIDENCE.	OCCUPATION.
Raymond, Marcus M.,	37 Jaques street,	No occupation.
Read, Joseph,	103 Somerville avenue,	Laborer.
Reardon, Thomas F.,	34 Rossmore street,	Barrels.
Reed, Nathan H.,	35 Pearl street,	Iron foundry.
Rich, James P.,	9 Pinckney street,	Agent.
Rich, Samuel B.,	48 Berkeley street,	Fish.
Richardson, Benjamin H.,	102 Curtis street,	Clerk.
Richardson, Homer L.,	88 Albion street,	Compositor.
Richardson, James H.,	28 Bartlett street,	Poultry.
Ridler, Parker,	37 Ames street,	Salesman.
Rines, Benjamin F.,	3 Wyatt place,	Cooper.
Rines, Samuel,	72 Jaques street,	Teamster.
Robinson, William F. S.,	84 Pearl street,	Artist.
Robbins, Joseph,	1 Gilman terrace,	Architect.
Robie, Albert E.,	60 Vernon street,	Clerk.
Robinson, Francis H.,	36 Beach street,	Clerk.
Rohrbacher, Albert L.,	4 Bolton street,	Iron moulder.
Rolfe, Frank A.,	30 Dover street,	Dry goods.
Ross, William M.,	22 Fanning avenue,	Grainer.
Roe, Abram F.,	47 Stone avenue,	No occupation.
Row, Frederick W.	463 Somerville avenue,	Teamster.
Russell, Arthur J.,	59 Vine street,	Printer.
Russell, Eugene, L.,	1196 Broadway,	Clerk.
Russell, George J.,	235 Holland street,	Boots and shoes and groceries.

JURY LIST — *Continued.*

NAME.	RESIDENCE.	OCCUPATION.
S		
Saben, Edward E.,	110 Pearl street,	Insurance.
Sallaway, George H.,	63 Putnam street,	Provisions.
Sampson, Alvin W.,	44 Highland avenue,	Bookkeeper.
Sampson, Leander,	9 Vine street,	Laborer.
Sanborn, Charles H.,	223 School street,	Steam heating.
Sanborn William A.,	60 Chauncey avenue,	Brick manufacturer.
Sargent, Arthur G.,	14 Flint street,	Clerk.
Seabury, Ovid A.,	74 Chandler street,	Patent medicines.
Sears, Eben,	25 Dartmouth street,	Boiler inspector.
Sennott, Samuel,	759 Somerville avenue,	Mason.
Schepmoes, Joseph S.,	5 Tennyson street,	Printer.
Shattuck, Elwyn H.,	75 Harris street,	Metal spinner.
Shaw, William H.,	92 Central street,	Clerk.
Sibley, Elton S.,	42 Oxford street,	Metal engraver.
Skelton, Daniel J.,	10 Burnside avenue,	Carpenter.
Smiley, Warren N.,	41 Bonair street,	Cabinet maker.
Smith, Albert E.,	11 Church street,	Cooper.
Snow, John C. H.,	60 Mt. Vernon street,	Carpenter and builder.
Snow, Joshua A.,	54A Beacon street,	Fish dealer.
Snow, Walter H.,	42 Derby street,	Groceries and provisions.
Snow, William A.,	17 Francesca avenue,	Ornamental iron.
Solomon, William H.,	12 Berkeley street,	Real estate.
Southworth, Edwin W.,	13 Webster street,	Bookkeeper.
Spencer, George,	39 Houghton street,	Cabinet maker.

JURY LIST — *Continued.*

NAME.	RESIDENCE.	OCCUPATION.
Spike, Daniel R.	296 Broadway,	Janitor, Odd Fellows block.
Spinney, Leonard C.,	45 Tennyson street,	Upholsterer.
Stacy, George W.,	14 Albion street,	Clerk.
Staples, Mendall G.,	42 Prospect street,	Teamster.
Starbird, Everett G.,	40A Oliver street,	Carpenter.
Starbird, George M.,	102 Pearl street,	Carpenter.
Stearns, Phineas,	340 Elm street,	No occupation.
Stevens, Charles L.,	33 Wallace street,	Groceries and provisions.
Stevens, John A.,	30 Church street,	Painter.
Stevens, John E.,	7 Linden avenue,	Painter.
Stevens, Oliver A.,	46 Beacon street,	Engineer, Globe building.
Stephenson, Thomas C.,	13½ Summer street,	Printer.
Stillings, Rufus,	23 Arthur street,	Printer.
Story, Joseph A.,	40 Highland avenue,	Travelling salesman.
Straight, William E.,	356 Somerville avenue,	Carpenter.
T		
Taylor, George E.,	299 Washington street,	Salesman.
Tarbox, French O. J.,	60 Oak street,	Steam fitter.
Teakles, Frank R.,	27 Concord avenue,	Carpenter.
Teele, Frank A.,	1139 Broadway,	Coal, wood, real estate and insurance.
Teele, F. Warren,	Rear 33 Curtis street,	Electrical engineer.
Teele, Samuel F.,	73 Curtis street,	Farmer.
Thacher, Cyrus,	15 Albion street,	Produce.
Thomas, John C.,	46 Vinal avenue,	No occupation.
Thompson, Charles W.,	27 Lake street,	Clerk.

JURY LIST — *Continued.*

NAME.	RESIDENCE.	OCCUPATION.
Thompson, Daniel W.,	13 Benedict street,	Teamster.
Thompson, Joseph M.,	66 Marshall street,	Collector.
Thurgood, Augustus,	42 Hudson street,	Salesman.
Tilden, Robert C.,	67 Columbus avenue,	Painter.
Torrey, Arthur R.,	8 Campbell park,	Real estate.
Travers, Robert J.,	11 Joy place,	Helper.
True, Harry A.,	140 Holland street,	Real estate.
Tucker, Nathaniel W.,	24 Auburn avenue,	Plumber.
Turner, William O.,	85 Pearl street,	Bookkeeper.
Twitchell, Harvey E.,	7 Fountain avenue,	Salesman.
Twycross, Samuel, G. A.,	36 Elm street,	Foreman.
U		
Underhill, Charles L.,	7 Bradley street,	Carriage repairing and steel specialties.
Underhill, Jesse J.,	17 Gilman street,	Coal and wood.
Upton, Henry J.,	45 Florence street,	Rubber worker.
V		
Van Buskirk, Charles,	20 Prescott street,	Frame worker.
Van Ness, Charles H.,	13 Garfield avenue,	Conductor W. E. St. Ry. Co.
Vincent, Francis X.,	97A Prospect street,	Printer.
Vivian, James H.,	210 Medford street,	Salesman.
Vreeland, Edward B.,	121 Central street,	Wood, coal, hay, grain, etc.
W		
Walker, Thomas G.,	5 Dell street,	Foreman, N. P. & P. Co.

JURY LIST — *Continued.*

NAME.	RESIDENCE.	OCCUPATION.
Wall, William E.	14 Morgan street,	Grainer.
Wanamaker, James W.	5 Burnside avenue,	Plasterer.
Ward, Benjamin A.,	12 Mason avenue,	Tailor.
Watson, Frank L.,	21 Aldersey street,	Paints and oils.
Watson, George B.,	204 Somerville avenue,	Foreman tin shop.
Webber, Edward O.,	79 Partridge avenue,	Rubber worker.
Webber, Orrin H.,	88 Jaques street,	Carpenter.
Weeks, Edwin,	48 Quincy street,	Mason.
Weiss, Charles,	258 Somerville avenue,	Foreman N. E. D. M. & W. Co.
Weissbach, Joseph,	Electric ave., rear 33 Curtis st.	Bookkeeper.
Wemyss, George D.,	5 Austin street,	Furniture manufacturer.
Wentworth, Frank H.,	350 Broadway,	Salesman.
Wheaton, William H.,	355 Somerville avenue,	Steam fitter.
White, Dougal,	190 Somerville avenue,	laborer.
White, Frank H.,	14 Montgomery avenue,	Map mounter.
Whiton, George F.,	20 Otis street,	Leather.
White, James,	12 Laurel street,	Dyer, Middlesex bleachery.
White, J. Harvey,	411 Broadway,	Produce.
White, Joseph A.,	150 Hudson street,	Carpenter.
White, Maurice J.,	52 Linwood street,	Clerk.
Wilber, John F.,	69 Franklin street,	Compositor.
Wild, B. Frank,	241 School street,	Coal.
Wildes, Manfred H.,	194 Central street,	Furniture.
Wiley, Clarence H.,	26 Dartmouth street,	Hay, etc.
Williams, Ernest P.,	1 Hillside avenue,	Treas. of Williams Table & Lumber Co.
Williams, Frank G.,	37 Albion street,	Milk dealer and livery stable.

JURY LIST — *Concluded.*

NAME.	RESIDENCE.	OCCUPATION.
Williamson, John F.,	7 Tyler street,	Brass finisher.
Wilson, John R.,	60 Albion street,	Carpenter.
Wilson, William B.,	10 Lincoln avenue,	Superintendent.
Wing, Charles H.,	234 Broadway,	Restaurant.
Wood, Charles,	234 Washington street,	Locksmith.
Wood, Charles H.,	44 Stone avenue,	Clerk.
Wood, Charles M.,	118 Cross street,	Carriage woodwork.
Woodbury, Frederick A.,	43 Marshall street,	Boots and shoes.
Woodman, John O. H.,	32 Tufts street,	Traveling salesman.
Woods, Thomas S.,	69 Joy street,	Carpenter
Wright, Frank E.,	28 Allen street,	Machinist.
Y		
Yelland, Henry,	27 Oxford street,	Bottler.
Young, Willis A.,	49 Cedar street,	Carpenter and builder.

CITY GOVERNMENT AND OFFICERS
FOR 1897.

CITY GOVERNMENT AND OFFICERS FOR 1897.

MAYOR.

ALBION A. PERRY,
366 Broadway.

BOARD OF ALDERMEN.

WARD ONE.

L. HERBERT HUNTLEY	.	.	.	.	1 Pearl street
JOSIAH N. PRATT, <i>President</i>	.	.	.	.	33 Franklin street

WARD TWO.

WILLIAM M. IRVING	.	.	.	.	82 Summer street
GEORGE E. WHITAKER	.	.	.	.	19A Greenville street

WARD THREE.

JAMES M. ANDREWS	.	.	.	.	172 Broadway
ANDREW A. LAMONT	.	.	.	.	43 Heath street

WARD FOUR. °

WILLIAM H. BERRY	.	.	.	.	39 Cherry street
JOHN N. BALL	.	.	.	.	690 Broadway

CLERK.

GEORGE I. VINCENT.

Regular meetings, second and fourth Wednesday evenings of each month.

COMMON COUNCIL.

WARD ONE.

FRANK DEWITT LAPHAM, <i>President</i>	.	.	.	.	3 Hathorn street
FRANK B. BURROWS	.	.	.	.	29 Mystic avenue
L. EDGAR TIMSON	.	.	.	.	41A Franklin street
ORICE M. GRACEY	.	.	.	.	23 Webster street

WARD TWO.

WILLIAM E. ROBINSON	.	.	.	.	32 Vinal avenue
ARTHUR D. OSBORNE	.	.	.	.	10 Hillside Park
JOHN W. MACDONALD	.	.	.	.	3 Boston street
JAMES W. KENNEY	.	.	.	.	4 Concord avenue

WARD THREE.

ARTHUR W. BERRY	.	.	.	.	53 Hudson street
HOWARD LOWELL	.	.	.	.	46 Gilman street
MARCUS M. RAYMOND	.	.	.	.	37 Jaques street
FRANCIS M. WILSON	.	.	.	.	103 Cross street

WARD FOUR.

FRED M. CARR	.	.	.	.	74 Craigie street
SILAS L. CUMMINGS	.	.	.	.	251 Elm street
ALBERT L. REED	.	.	.	.	336 Beacon street
ISAAC M. STORY	.	.	.	.	238 Summer street

CLERK.

CHARLES S. ROBERTSON.

Regular meetings, Thursday evenings next following the second and fourth Wednesdays of each month.

JOINT STANDING COMMITTEES OF THE CITY COUNCIL.

ACCOUNTS.—Aldermen Huntley and Berry; Councilmen Wilson, Osborne and Gracey.

CITY ENGINEERING.—Aldermen Berry and Lamont; Councilmen Berry, Timson, and Kenney.

CLAIMS.—His Honor, the Mayor, Alderman Whitaker; the President of the Common Council, Councilmen Wilson and Story.

ELECTRIC LINES —Aldermen Andrews, Huntley and Irving; Councilmen Timson and Reed.

FINANCE.—His Honor, the Mayor, Aldermen Whitaker and Huntley; the President of the Common Council, Councilmen Carr, Lowell, Cummings and Macdonald.

FIRE DEPARTMENT.—Aldermen Huntley and Lamont; Councilmen Reed, Burrows and Kenney.

FUEL AND STREET LIGHTS.—Aldermen Irving and Pratt; Councilmen Timson, Raymond and Carr.

HIGHWAYS.—Aldermen Berry and Irving; Councilmen Gracey, Macdonald and Wilson.

LEGISLATIVE MATTERS.—His Honor, the Mayor, Alderman Whitaker; the President of the Common Council, Councilmen Raymond and Reed.

ORDINANCES.—Aldermen Pratt and Lamont; Councilmen Cummings, Lowell and Kenney.

PRINTING.—Aldermen Andrews and Irving; Councilmen Story, Timson and Osborne.

PUBLIC GROUNDS.—Aldermen Ball and Whitaker; Councilmen Lowell, Reed and Burrows.

PUBLIC PROPERTY.—Aldermen Pratt and Andrews; Councilmen Berry, Cummings and Robinson.

SOLDIERS' RELIEF.—Aldermen Lamont and Ball; Councilmen Burrows, Raymond and Osborne.

WATER.—Aldermen Pratt and Andrews; the President of the Common Council, Councilmen Carr and Robinson.

STANDING COMMITTEES OF THE BOARD OF ALDERMEN.

ELECTIONS AND RETURNS.—Aldermen Andrews, Irving and Ball.

ENROLLED ORDINANCES AND RESOLUTIONS. — Aldermen Huntley, Berry and Andrews.

LICENSES.—Aldermen Ball, Irving and Huntley.

POLICE.—His Honor, the Mayor, Aldermen Andrews and Whitaker.

SEWERS.—Aldermen Lamont, Pratt and Ball.

SPECIAL BUILDING PERMITS.—Aldermen Berry and Huntley.

STATE AID.—Aldermen Whitaker, Pratt, Lamont and Berry.

STANDING COMMITTEES OF THE COMMON COUNCIL.

ELECTIONS AND RETURNS. — Councilmen Reed, Gracey and Macdonald.

ENROLLED ORDINANCES AND RESOLUTIONS. — Councilmen Berry, Robinson and Story.

SCHOOL COMMITTEE.

ALBION A. PERRY, Mayor, *Chairman, ex-officio*.

FRANK DE WITT LAPHAM, President of the Common Council, *ex-officio*.

(Term, three years).

WARD ONE.

S. NEWTON CUTLER (elected 1894).

SANFORD HANSCOM, M. D. (elected 1896).

GEORGE S. POOLE (elected 1895).

WARD TWO.

ALVAH B. DEARBORN, M. D. (elected 1894).

HERBERT A. CHAPIN (elected 1895).

JAMES F. BEARD (elected 1896).

WARD THREE.

QUINCY E. DICKERMAN (elected 1895).

FRANK H. HARDISON (elected 1894).

GEORGE W. W. WHITING, M. D. (elected 1896).

WARD FOUR.

GILES W. BRYANT, M. D. (elected 1895).

MARTIN W. CARR (elected 1896).

GEORGE A. MILES, M. D. (elected 1894).

GORDON A. SOUTHWORTH, *Superintendent and Secretary*.

Regular Meetings, last Monday evening of each month.

ASSESSORS.

(Term, three years.)

BENJAMIN F. THOMPSON, *Chairman*, (term expires 1899.)

SAMUEL T. RICHARDS, (term expires 1898.)

NATHAN H. REED (term expires 1900).

Clerk of Assessors, ALBERT B. FALES.

ASSISTANT ASSESSORS.

(Term, one year.)

WARD ONE.

FRED. B. CLAPP.

WARD TWO.

CHARLES C. FARRINGTON.

WARD THREE.

EDGAR T. MAYHEW.

WARD FOUR.

FRANK A. TEELE.

BOARD OF HEALTH.

(Term, three years.)

ALLEN F. CARPENTER, *Chairman*, (term expires 1900).

ALVAH B. DEARBORN, M. D. (term expires 1898).

ALVANO T. NICKERSON (term expires 1899).

Clerk, WILLIAM P. MITCHELL.

Inspector, CALEB A. PAGE.

Superintendent Collection of Ashes and Offal, GEORGE W. S. HUSE.

OVERSEERS OF THE POOR.

Office, Police Building, Bow street.

ALBION A. PERRY, Mayor, *Chairman, ex-officio.*

(Term, four years.)

EDWARD B. WEST, *President* (term expires 1899).

ALBERT W. EDMANDS (term expires 1897).

HERBERT E. MERRILL (term expires 1898).

EZRA D. SOUTHER (term expires 1900).

Agent, CHARLES C. FOLSOM.

Secretary, CORA F. LEWIS.

SOMERVILLE MYSTIC WATER BOARD.

Office, City Hall.

(Term, three years).

GEORGE D. WEMYSS, *President*, (term expires 1900).

5 Austin street.

GEORGE A. KIMBALL (term expires 1898).

33 Warren avenue.

WILLIAM FRANKLIN HALL (term expires 1899).

345 Broadway.

NATHANIEL DENNETT, *Supt. Water Works.*

FRANK E. MERRILL, *Clerk.*

REGISTRARS OF VOTERS.

(Term : City Clerk, one year ; other members, three years).

CROMWELL G. ROWELL, *Chairman* (term expires 1900).

CHARLES P. LINCOLN (term expires 1898).

CHARLES E. PARKS (term expires 1899).

GEORGE I. VINCENT, *City Clerk.*

TRUSTEES OF THE PUBLIC LIBRARY.

(Term, three years).

CHARLES S. LINCOLN, *Chairman* (term expires 1900).

CHARLES A. WEST (term expires 1898).

JOHN B. VIALI (term expires 1899).

J. HENRY FLITNER (term expires 1898).

CHRISTOPHER E. RYMES (term expires 1900).

ELIJAH C. CLARK (term expires 1898).

CHARLES H. BROWN (term expires 1900).

J. FRANK WELLINGTON (term expires 1899).

CHARLES W. SAWYER (term expires 1899).

JOHN S. HAYES, *Librarian and Secretary*.

CITY CLERK.

GEORGE I. VINCENT.

CITY TREASURER AND COLLECTOR OF TAXES.

JOHN F. COLE.

MESSENGER TO CITY COUNCIL.

JAIRUS MANN.

CITY SOLICITOR.

SELWYN Z. BOWMAN.

CITY AUDITOR.

CHARLES S. ROBERTSON.

CITY ENGINEER.

ERNEST W. BAILEY.

CLERK OF COMMITTEES.

WILLIAM P. MITCHELL.

SUPERINTENDENT OF STREETS.

JOHN P. PRICHARD.

INSPECTOR OF BUILDINGS AND SUPERINTENDENT OF PUBLIC
BUILDINGS.

FREDERICK C. FULLER.

INSPECTOR OF PLUMBING.

DUNCAN C. GREENE.

SUPERINTENDENT OF ELECTRIC LINES AND LIGHTS.

EDWARD BACKUS.

CHIEF OF POLICE.

MELVILLE C. PARKHURST.

CHIEF ENGINEER OF THE FIRE DEPARTMENT.

JAMES R. HOPKINS.

CITY PHYSICIAN.

ALVAH B. DEARBORN, M. D.

INSPECTOR OF MILK AND VINEGAR.

CHARLES S. PHILBRICK.

INSPECTOR OF ANIMALS AND PROVISIONS.

CHARLES M. BERRY.

SEALER OF WEIGHTS AND MEASURES.

JOHN H. DUSSEAUT.

BURIAL AGENTS.

Under Chapter 279, Acts of 1896.

JAMES F. DAVLIN.

JOHN H. DUSSEAUT.

CONSTABLES.

JAIRUS MANN.	MELVILLE C. PARKHURST.
ROBERT R. PERRY.	WILLIAM D. HAYDEN.
CHARLES C. FOLSOM.	JOSEPH J. GILES.
EDWARD McGARR.	DENNIS KELLEY.
CHRISTOPHER C. CAVANAGH.	CHARLES L. ELLIS.
EUGENE A. CARTER.	CLARENCE TUCKER.
PATRICK J. GARVIN.	GEORGE H. CARLETON.

FENCE VIEWERS.

LAMBERT M. MAYNARD.	CHARLES M. BERRY.
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MEASURER OF WOOD AND BARK.

SAMUEL T. LITTLEFIELD.

MEASURERS OF GRAIN.

JOHN CRAIG.
JAMES McFEDZEAN.

PUBLIC WEAHER IN CHARGE OF CITY SCALES, UNION SQUARE.

FULTON O'BRION.

WEIGHERS OF COAL.

CHARLES H. TUCKER.	CLINTON E. SOMES.
GEORGE E. SLACK.	SIDNEY E. HAYDEN.
ROBERT A. YERXA.	IRWIN L. SMITH.
FRANK A. TEELE.	SUMNER M. TEELE.
ALFRED A. WALDRON.	CHARLES P. BRANN.
THOMAS W. LANE.	AMHERST F. DURKEE.
JOEL J. FISHER.	CHARLES E. ROCKWELL.
CHARLES H. WARD.	C. EDWARD BYRNES.

WEIGHERS OF BEEF.

D. WARNER DANFORTH.	CHARLES H. TUCKER.
FREDERICK A. GEILING.	GEORGE E. SLACK.
CLARENCE EDWARDS.	CLINTON E. SOMES.
THOMAS K. MARTIN.	EDWARD M. WHEELER.
AMHERST F. DURKEE.	THOMAS W. LANE.
CHARLES E. ROCKWELL.	JOEL J. FISHER.
CHARLES H. WARD.	C. EDWARD BYRNES.
ALFRED A. WALDRON.	

POLICE DEPARTMENT.

MELVILLE C. PARKHURST, *Chief*.

ROBERT R. PERRY, <i>Captain</i> .	EDWARD McGARR, <i>Sergt</i> .
CHRIS. C. CAVANAGH, <i>Sergt</i> .	DENNIS KELLEY, <i>Sergt</i> .
EUGENE A. CARTER, <i>Sergt</i> .	PHINEAS W. SKINNER.
JOHN E. FULLER.	SAMUEL A. BROWN.
ALBION L. STAPLES.	JOHN HAFFORD.
JUDSON W. OLIVER.	GEORGE A. BODGE.
GEORGE W. BEAN.	GEORGE H. CARLETON.
GEORGE L. SMITH.	FRANCIS A. PERKINS.
EDWARD M. CARTER.	CHARLES S. THRASHER.
CHARLES E. WOODMAN.	WILLIAM H. JOHNSTON.
ARTHUR E. KEATING.	JOHN G. KNIGHT.
STEPHEN S. SMITH, (resigned Feb 10).	THEODORE E. HERON.
EUGENE H. GAMMON.	JACOB W. SKINNER.
IRA S. CARLTON.	DAVID A. BOLTON.
CHARLES W. STEVENS.	JAMES M. HARMON.
ULYSSES G. SKINNER.	MICHAEL T. KENNEDY.
JAMES J. POLLARD.	EZRA A. DODGE.
SAMUEL BURNS.	DANIEL G. SIMONS.
JOTHAM CHISHOLM.	FRED H. GOOGINS.
ELMER E. DREW.	WILLIAM J. DAVIDSON.
	JOHN A. DADMUN.

EUGENE A. WOODSUM.

MELVILLE C. PARKHURST, *Lockup Keeper*.

RESERVE POLICE.

GEORGE L. RICE.	JOHN A. RAY.
HERBERT HILTON.	MYRON S. GOTT.
CHARLES W. REICK.	

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